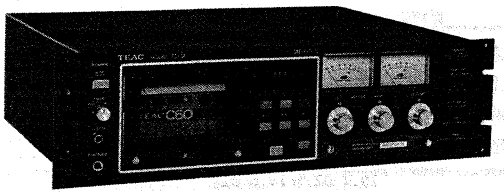
TEAC®



SERVICE MANUAL

C-2

Stereo Cassette Deck

1 SPECIFICATIONS AND SERVICE DATA

SPECIFICATIONS

Track System 4-track, 2-channel stereo
3 Heads Erase, Record & Playback
Type of Tape Cassette tape, C-60 and C-90 (Phillips type)
Tape Speed 4.8 cm/s (1-7/8 ips)
Input (level and impedance)
MIC: Specified input level; −57 dB (1.09 mV)/10 k ohms
Min. input level; −67 dB (346 μV)
LINE IN: Specified input level; −9 dB (275 mV)/50 k ohms
Min. input level; −19 dB (86.9 mV)
Outputs (level and load impedance)
OUTPUT: Max. output level; +1 dB (0.869 V)/50 k ohms
Specified output level; −5 dB (436 mV)
Headphones: Specified output level; −15.8 dB (126 mV)/8 ohms
Equalization
METAL: 3180 μs + 70 μs
$CO(CrO_2)$: 3180 μs + 70 μs
NORMAL: 3180 μs + 120 μs
Head Configuration
1/2-track, 1-channel Erase Head
1/4-track, 2-channel dual-gap record and playback heads
2 Motors FG servo controlled DC capstan motor, DC reel motor
Bias Frequency 100 kHz
Operation Position Horizontal
Power Requirements
100/117/220/240V AC, 50/60 Hz, 33W (General Export Model)
117V AC, 60 Hz, 33W (U.S.A./Canada Model)
220V AC, 50 Hz, 33W (Europe Model)
240V AC, 50 Hz, 33W (U.K./Aus. Model)
Weight 12.5 kg (27.5 lbs.) net
Dimensions

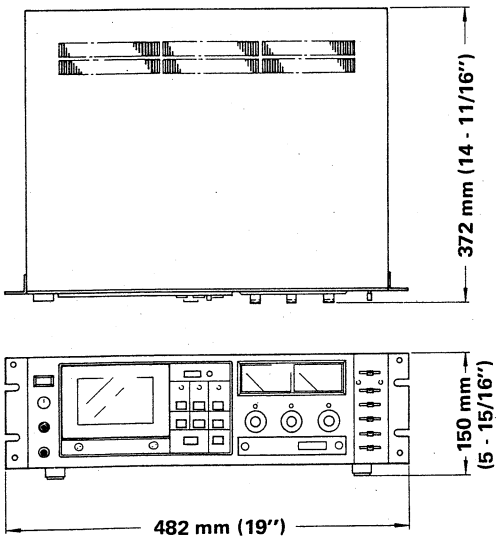


Fig. 1-1

SERVICE DATA

MECHANICAL

Tape Speed Deviation 3,000 Hz ± 30 Hz
Tape Speed Drift 15 Hz
Wow and Flutter
Playback: 0.065% (WRMS), 0.12% (RMS)
Record/Playback: 0.15% (RMS)
Pinch Roller Pressure
Right: 400 g ~ 500 g (14.1 oz ~ 17.6 oz)
Left: 300 g ~ 380 g (10.6 oz ~ 13.4 oz)
Reel Torque
Take-up: 45 to 65 g.cm (0.6 to 0.9 oz-inch)
Supply: 9 to 11 g.cm (0.12 to 0.15 oz-inch)
Fast Forward: 90 to 160 g.cm (1.2 to 2.2 oz-inch)
Rewind: 90 to 160 g.cm (1.2 to 2.2 oz-inch)
Fast Winding Time
85 seconds or less for MTT-501 (C-60)

ELECTRICAL

Frequency Response
Playback 40 Hz ~ 6.3 kHz ±2 dB
10 kHz $^{+2}_{-2.5}$ dB
14 kHz $^{+2}_{-3}$ dB
Overall 31.5 Hz $^{+2}_{-4}$ dB
63 Hz ~ 10 kHz ±2 dB
16 kHz $^{+2}_{-4}$ dB (NORMAL)
18 kHz $^{+2}_{-4}$ dB ($Co(CrO_2)$ & METAL)

Signal to Noise Ratio
Playback $Co(CrO_2)$ & METAL; 52 dB min.
NORMAL; 48 dB min.
Overall $Co(CrO_2)$ & METAL; 48 dB min.
NORMAL; 45 dB min.
S/N is improved by 5 dB at 1 kHz and 10 dB above 5 kHz when Dolby NR is used.
Erase Efficiency 65 dB min. at 1 kHz (measured with input 10 dB higher than the specified input level)
Channel Separation 35 dB min. at 1 kHz
Adjacent Track Crosstalk 40 dB min. at 125 Hz
Total Harmonic Distortion 2.0% or less w/3 types of tapes

- Improvements may result in SPECIFICATIONS AND SERVICE DATA changes.
- Value of "dB" in the Data refers to 0 dB (0.775 V), except where specified.

WARNING
⚠Parts marked with this sign are safety critical components. They must always be replaced with identical components-refer to the TEAC Parts List and ensure exact replacement.

Noise reduction circuit made under license from Dolby Laboratories. The word "Dolby" and the Double-D symbol are trademarks of Dolby Laboratories.

2 PARTS LOCATION

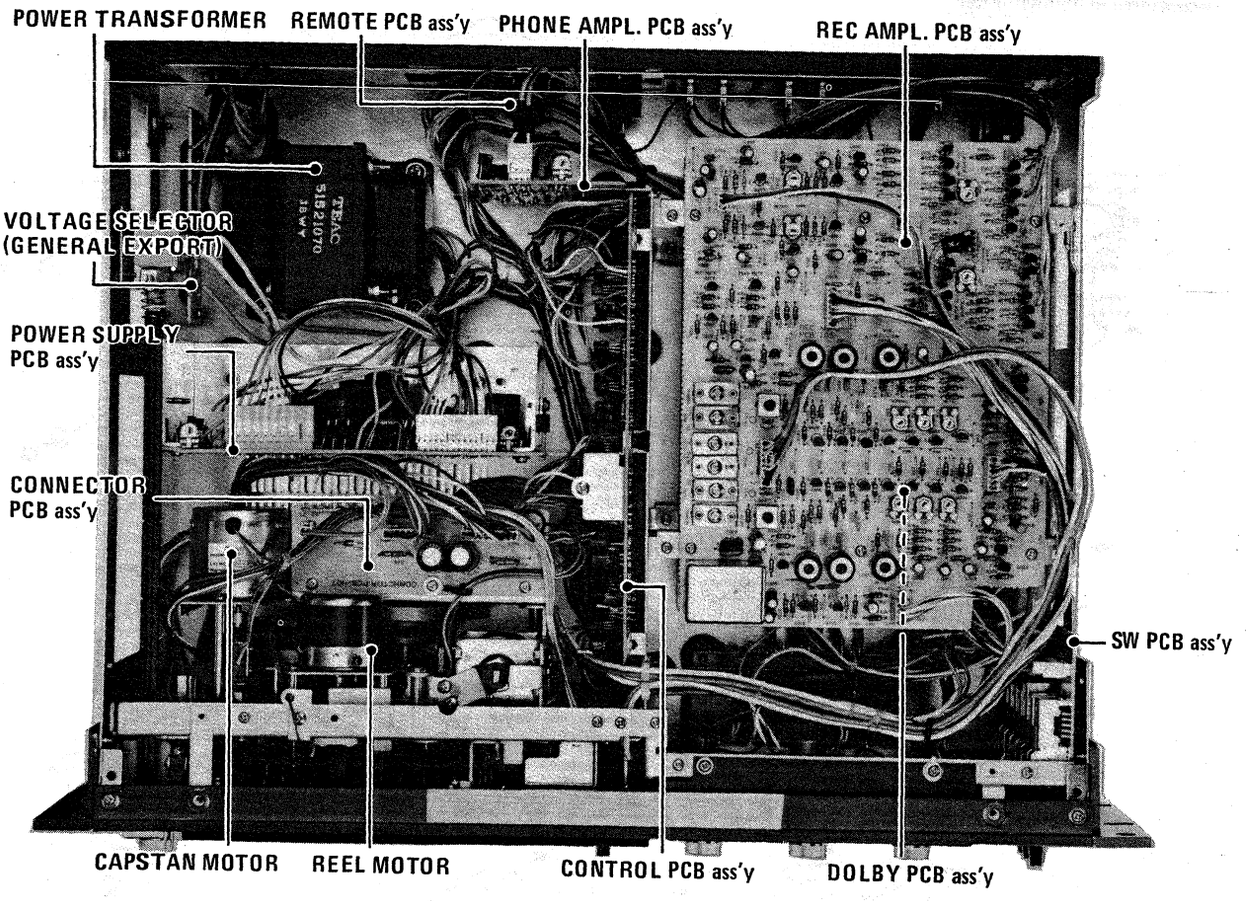


Fig. 2-1

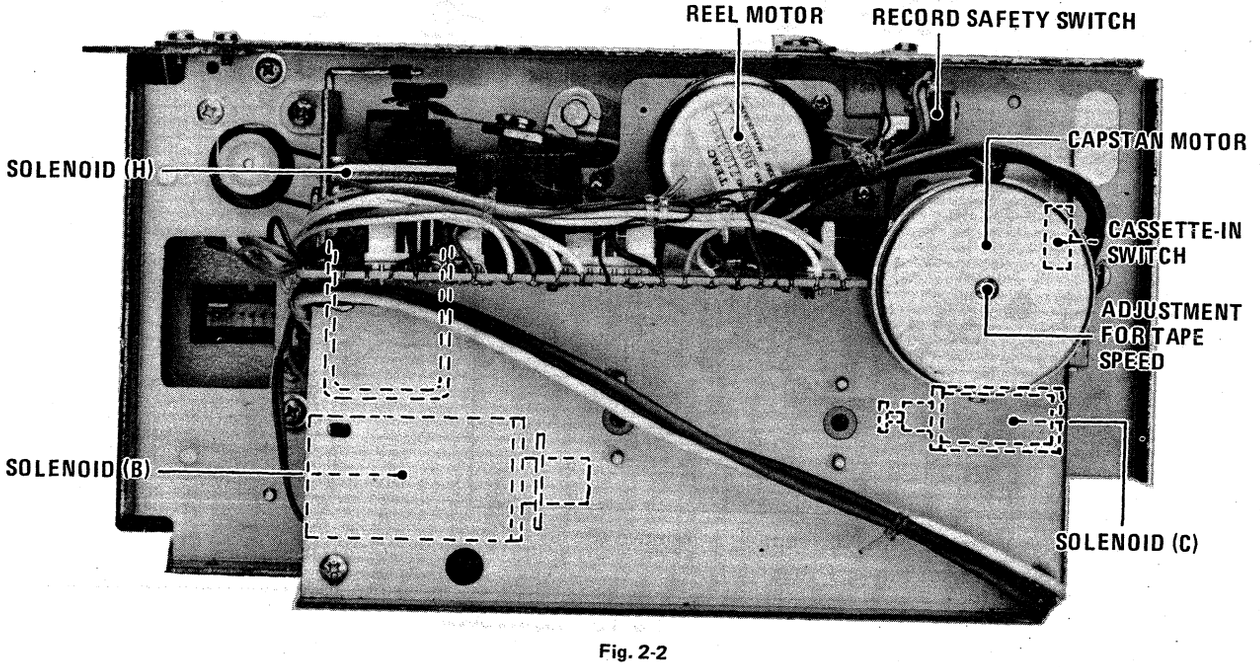


Fig. 2-2

3 CASE AND FRONT PANEL REMOVAL

Disassemble in number-order

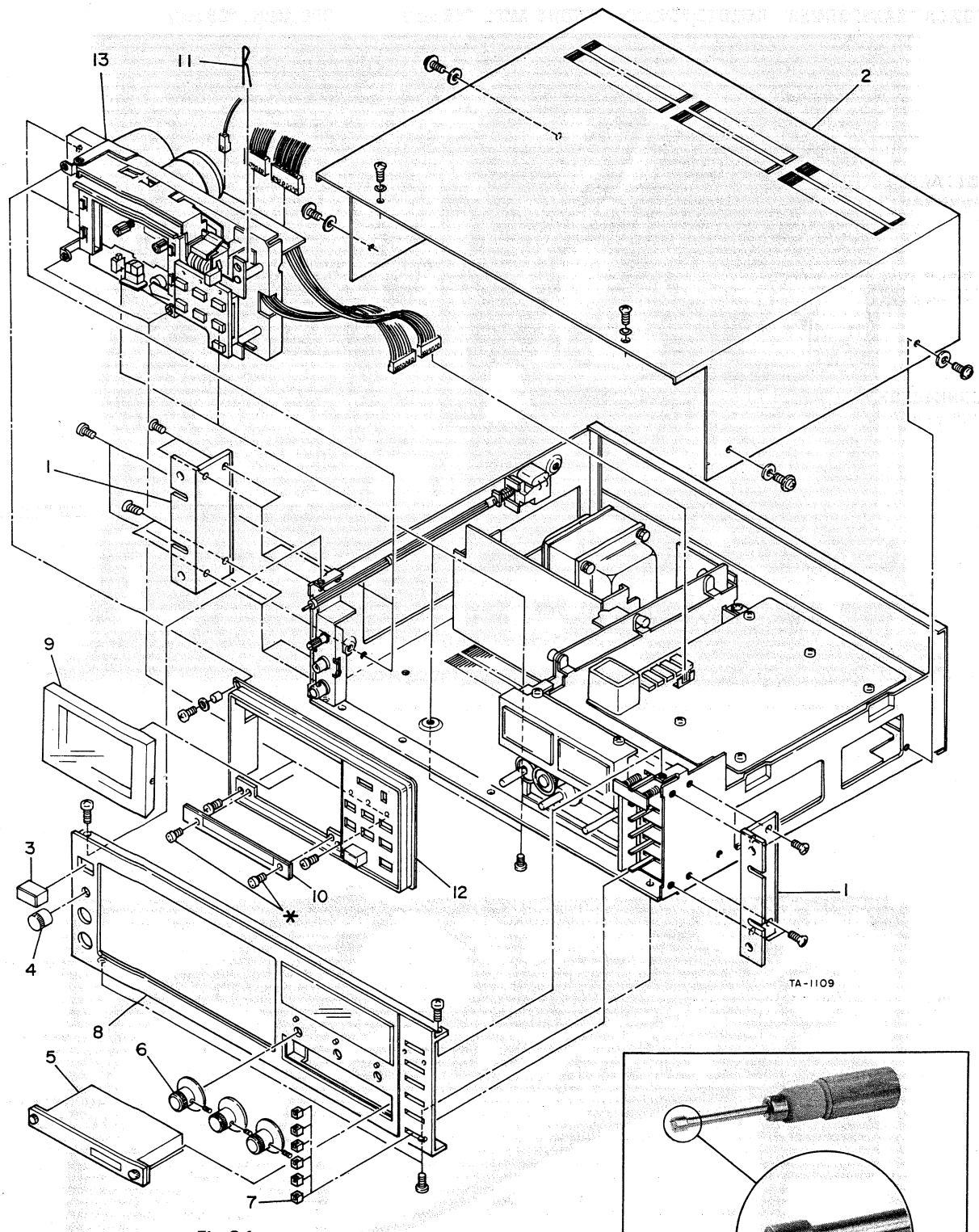


Fig. 3-1

NOTE: A crab-eye driver is required to remove the "crab-eyes" screws (* marked).

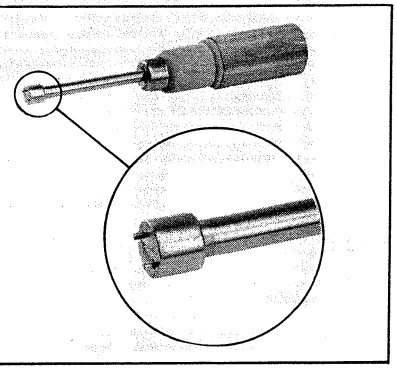


Fig. 3-2 Crab-eye driver

4 MECHANICAL ADJUSTMENT AND CHECKS

4-1 ERASE HEAD POSITION

1. Load a mirror-type cassette*
2. Set in the play mode to enter the erase head into the erase head opening of the cassette shell.
3. Check that even though the tape is forced to move by hand both to the left and to the right, the head does not touch either edge of the erase head opening.
4. If it touches, adjust by means of the two screw s as shown.

* Ones made by TEAC are designated "Compact Cassette Tape Path Checker" and classified into 2 types: MTT-901(C60, 30 m) and MTT-902(C90, 45 m).

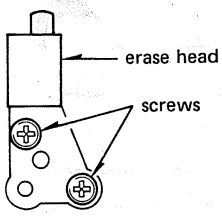
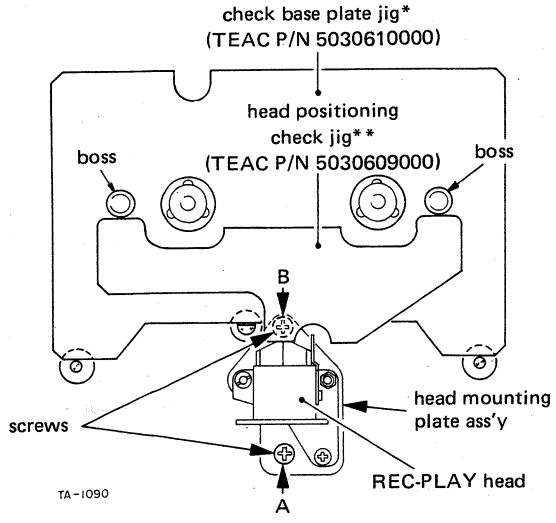


Fig. 4-1

4-2 REC-PLAY HEAD POSITION

1. Loosen two screws (A, B) on the head mounting plate ass'y.
2. Open the cassette holder.
3. Insert the check base plate jig very carefully with the two bosses installed outwards. When doing this, hold the jig in place until its bottom edge sits on the stopper at the bottom of the cassette holder.
4. Having closed the cassette holder, firmly press down the plate jig.
5. Set in the play mode.
6. Place the head positioning check jig on the plate jig as shown.
7. Move the head mounting plate ass'y upwards until the REC-PLAY head surface gently touches the head jig. Then fix lower screw (A).
8. Set in the stop mode. Then fix upper screw (B).

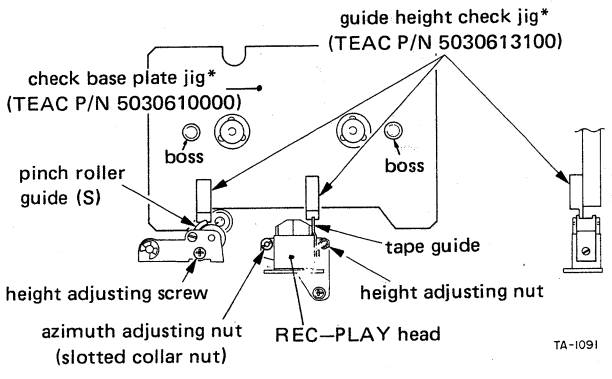


* Ones for the C-1 and A-800 can be used instead of this.
** Ones for the A-800 can be used instead of this.

Fig. 4-2

4-3 TAPE PATH ALIGNMENT

1. Load the check base plate jig with special attention as mentioned in #4-2, steps 2 through 4.
2. Set in the play mode.
3. Place the guide height check jig into proximity with the REC-PLAY head front surface as shown.
4. Adjust so that the tip of the height jig just fits under the tape guide of the head by turning the height adjusting nut. When doing this, be sure that the final turn of the nut is in the clockwise direction. Do so for all subsequent adjustments of nuts and screws.
5. Turn the azimuth adjusting nut with the same amount as former screw for head core to be parallel to the head mounting plate ass'y.
6. Move the height jig to attach it under the pinch roller guide (S) keeping a reasonable distance from the capstan shaft in order not to scratch the shaft.
7. Using this jig, adjust the height of the guide by turning the height adjusting screw.
8. Install a mirror-type cassette (C-90). Refer to #4-2.
9. Set in the play mode and check to see the tape runs normally.
10. If there is tape curling at the tape guide of the REC-PLAY head, correct the guide height until it disappears by slightly turning the height adjusting nut.
11. If slight tape curling is found in the tape path between the tape guide of the left pinch roller and the erase head, adjust the height of the guide of the pinch roller by turning the height adjusting screw within a quarter turn to either clockwise or counterclockwise direction from the preset position. Note that the way to check this curling is to observe carefully the tape motion in the vicinity of the capstan/pinch roller.
12. Check that the tape travel is correct when the joint of the leader tape and the magnetic tape passes through the tape path.



* Ones for the C-1 and A-800 are usable instead of these.

Fig. 4-3

4-4 SOLENOID (H) POSITION

NOTE: For solenoid location, refer to Fig. 2-2.

1. Manually push the head base plate ass'y upwards until it touches the base plate stopper.
2. With the above condition, adjust the solenoid position in order that the plunger projectes from the solenoid housing as shown.

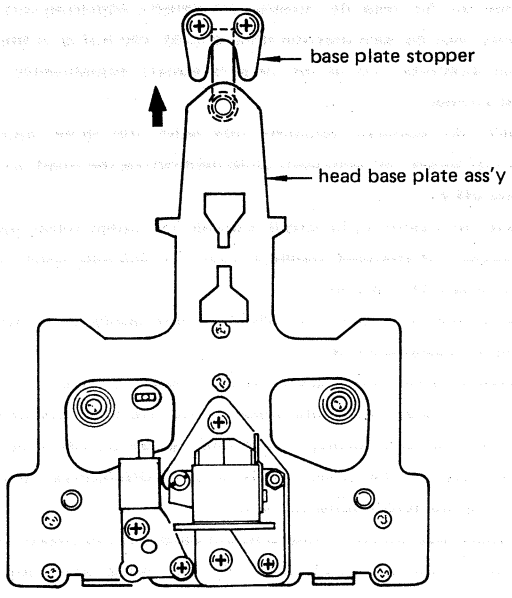


Fig. 4-4

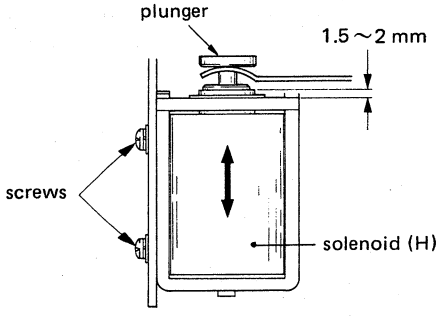


Fig. 4-5

4-5 SOLENOID (B) POSITION

NOTE: For solenoid location, refer to Fig. 2-2.

1. Adjust the solenoid position to satisfy the following.
   a. When in the play mode, clearance (A) should be obtained at both the left and right pinch roller sides.
   b. When in the pause mode, the clearance between the right pinch roller and right capstan shaft should be 0.3 mm～0.5 mm.
2. Set in the pause mode to check that the left pinch roller/capstan clearance is wider than the right one.

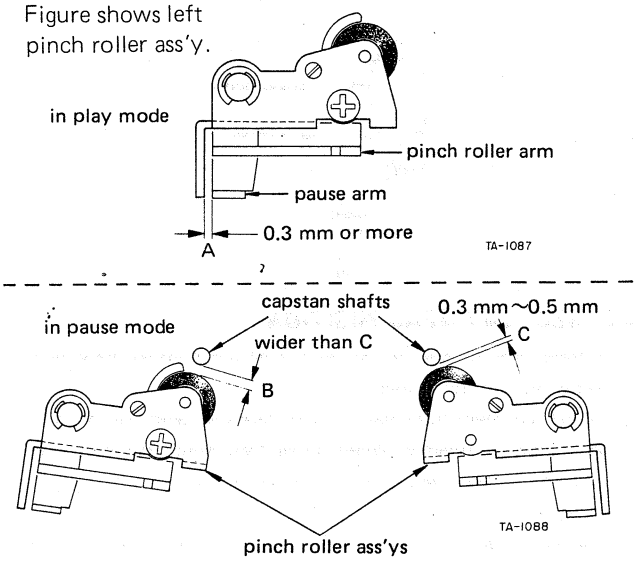


Fig. 4-6

4-6 SOLENOID (C) POSITION

NOTE: For solenoid location, refer to Fig. 2-2.

1. Adjust the solenoid position so that when the brake shoe makes contact with the reel tape (L) ass'y by hand (see (A) of Fig. 4-7), the plunger can be bottomed by 1～1.5 mm more when it is pushed beyond the leaf spring's normal relaxed shape (see (B) of Fig. 4-7).

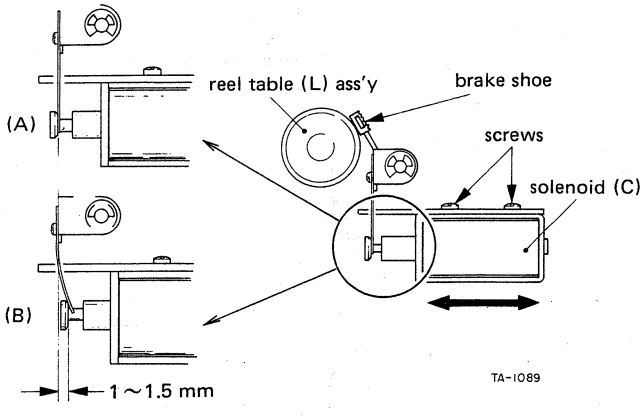
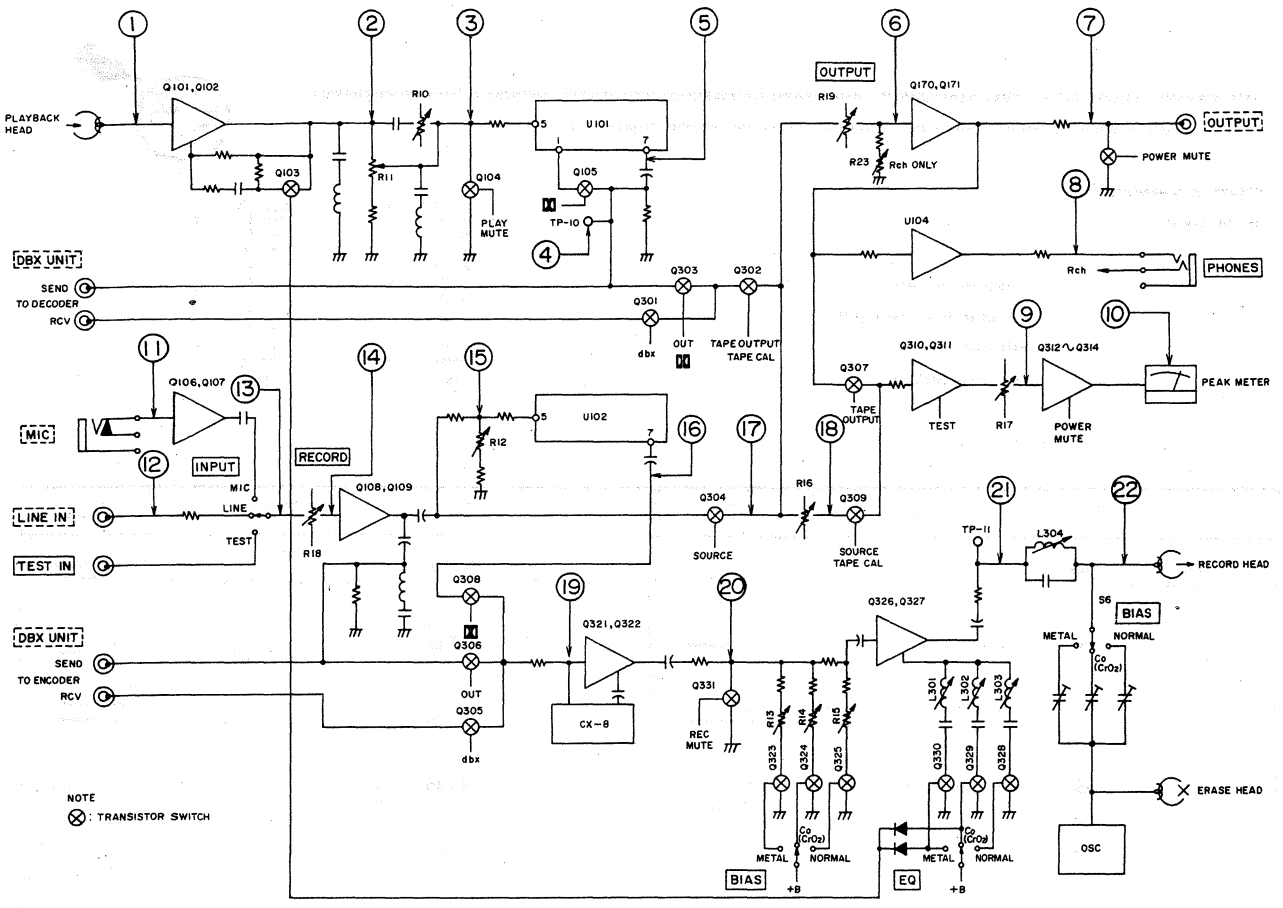
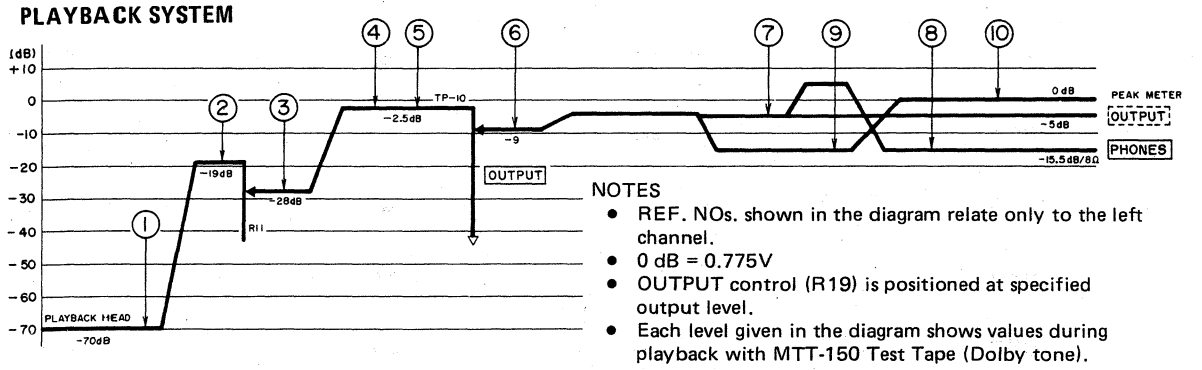


Fig. 4-7

LEVEL DIAGRAM



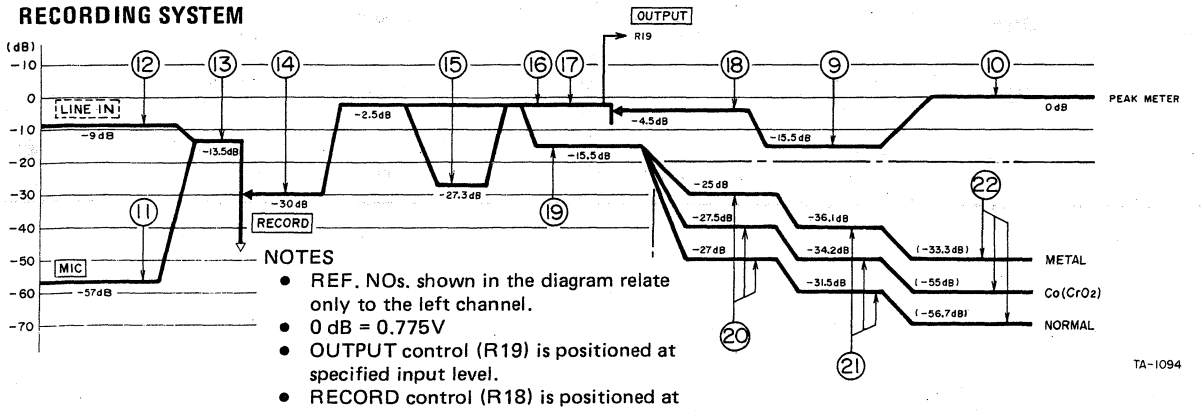
PLAYBACK SYSTEM



NOTES

- REF. NOs. shown in the diagram relate only to the left channel.
- 0 dB = 0.775V
- OUTPUT control (R19) is positioned at specified output level.
- Each level given in the diagram shows values during playback with MTT-150 Test Tape (Dolby tone).

RECORDING SYSTEM



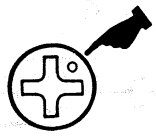
NOTES

- REF. NOs. shown in the diagram relate only to the left channel.
- 0 dB = 0.775V
- OUTPUT control (R19) is positioned at specified input level.
- RECORD control (R18) is positioned at specified input level.
- Each level given in the diagram shows values when a 400Hz specified input level is applied.

TA-1094

ASSEMBLING HARDWARE CODING LIST

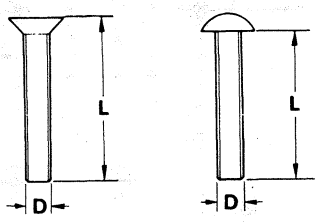
All screws conform to ISO standards, and have crossrecessed heads, unless otherwise noted.
ISO screws have the head inscribed with a point as in the figure to the right.



FOR EXAMPLE:

B M3 x 6

- B — Nomenclature
- M — Metric System
- 3 — Diameter in mm (D) *
- 6 — Length in mm (L)



* Inner dia. for washers and nuts

	Code	Name	Type
MACHINE SCREW	R	Round Head Screw	
	P	Pan Head Screw	
	T	Stove Head Screw (Truss)	
	B	Binding Head Screw	
	F	Flat Countersunk Head Screw	
	O	Oval Countersunk Head Screw	
WOOD SCREW	RW	Round Head Wood Screw	
TAPTITE SCREW	PTT	Pan Head Taptite Screw	
	WTT	Washer Head Taptite Screw	
SEMS SCREW	BSA	Binding Head SEMS Screw(A Type)	
	BSB	Binding Head SEMS Screw(B Type)	
	BSF	Binding Head SEMS Screw(F Type)	
	PSA	Pan Head SEMS Screw(A Type)	
	PSB	Pan Head SEMS Screw(B Type)	

	Code	Name	Type
TAPPING SCREW	BTA	Binding Head Tapping Screw(A Type)	
	BTB	Binding Head Tapping Screw(B Type)	
	RTA	Round Head Tapping Screw(A Type)	
	RTB	Round Head Tapping Screw(B Type)	
SETSCREW	SF	Hex Socket Setscrew(Flat Point)	
	SC	Hex Socket Setscrew(Cup Point)	
	SS	Slotted Socket Setscrew(Flat Point)	
WASHER	E	E-Ring (Retaining Washer)	
	W	Flat Washer (Plain)	
	SW	Lock Washer (Spring)	
	LWI	Lock Washer (Internal Teeth)	
	LWE	Lock Washer (External Teeth)	
	TW	Trim Washer (Countersunk)	
NUT	N	Hex Nut	

4-7 CASSETTE-IN SWITCH POSITION

NOTE: For switch location, refer to Fig. 2-2.

1. Be sure that when inserting a cassette tape in the cassette holder and closing it, the cassette-in switch is firmly actuated to run the capstan motor.
2. If the capstan motor does not turn, correct by adjusting the switch position as shown by the arrow.

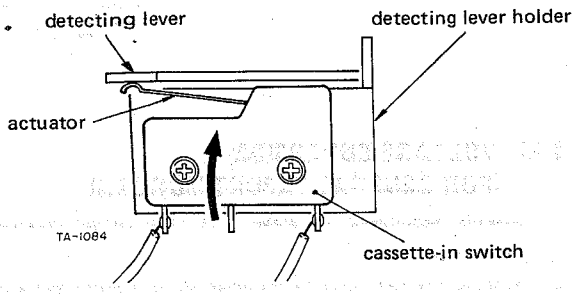


Fig. 4-8

4-8 RECORD SAFETY SWITCH POSITION

NOTE: For switch location, refer to Fig. 2-2.

1. Load a blank cassette tape.
2. Check that when depressing the RECORD button together with the play button, the deck is set in the record mode.
3. If not, adjust the record safety switch position for proper activation of the switch.
4. Remove the tape. Load a cassette tape with record protection tab removed.
5. Check that the record preventing lever enters the tab hole of the cassette to inhibit recording function.

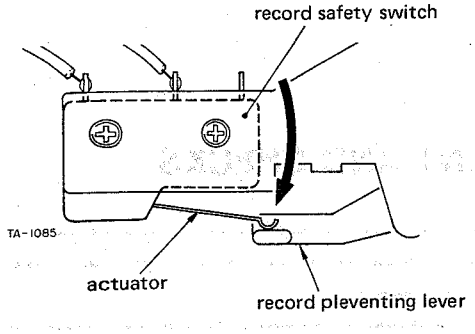


Fig. 4-9

4-9 PINCH ROLLER PRESSURE

NOTE: The explatation below applies to both left and right pinch rollers.

1. Place in the play mode with no tape loaded.
2. Attach a spring scale to the pinch roller shaft.
3. Draw the pinch roller away from the capstan shaft in the direction shown by the arrow until the capstan shaft and the pinch toller are separated.
4. Return the scale back until the pinch roller just begins to rotate. The scale should then be reading as per specifications.
   Specifications:
   right side, 400g ~ 500g (14.1oz ~ 17.6oz)
   left side, 300g ~ 380g (10.6oz ~ 13.4oz)
5. If the reading is out of the specified range, replace the pinch roller ass'y or the pinch roller spring.

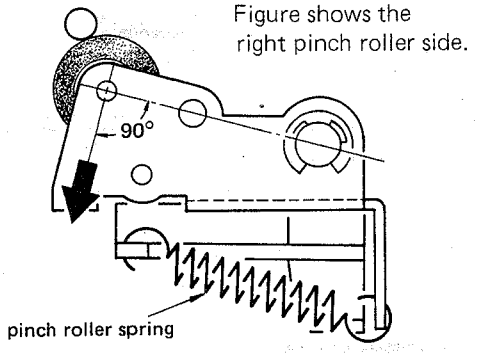


Fig. 4-10

4-10 REEL TORQUE

1. Load a cassette torque meter and read the pointer indication on the dial scale for each tape movement operation.
   Specifications:

Take up:	45 ~ 65g.cm (0.6 ~ 0.9oz.inch)
Supply:	9 ~ 11g.cm (0.12 ~ 0.15oz.inch) (adjustable)
Fast Forward:	90 ~ 160g.cm (1.2 ~ 2.2oz.inch)
Rewind:	90 ~ 160g.cm (1.2 ~ 2.2oz.inch)

2. If supply torque adjustment is required, adjust by positioning the B.T. plate bracket during the play mode.

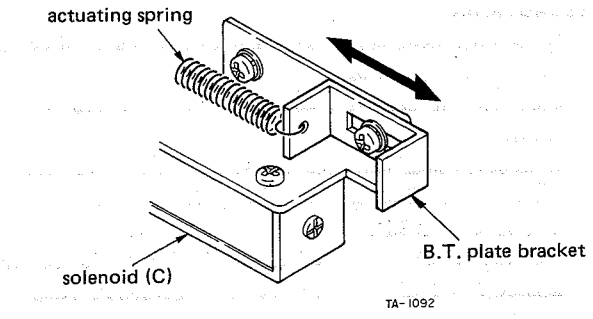


Fig. 4-11

4-11 TAPE SPEED

1. Connect test equipment to the deck.
2. Load and play a TEAC MTT-111 test tape.
3. Using a common slotted screwdriver with a handle completely insulated from the screwdriver blade, adjust the control on the motor for a reading of 3,000 ±5 Hz.

NOTE: This tape speed setting should be done after about 20 seconds of operating time.

4. Check the followings at any portion of the tape run.

Specifications:

Tape speed deviation ..... 3,000 Hz ±30 Hz
Tape speed drift ..... 15 Hz

5. If the tape speed is out of spec., check the pinch roller pressure and the tape driving function for correctness, and make sure the tape path is clean.

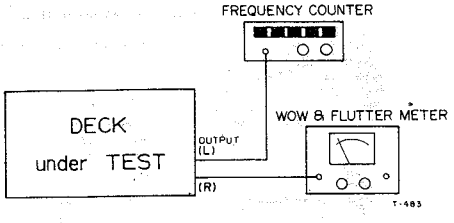


Fig. 4-12

4-12 LUBRICATION

Lubrication is only required when parts are replaced. For this purpose, use oil and grease specified below.

Oil: TEAC spindle Oil (from TEAC TZ-255 oil kit), Mobil D.T.E. oil Light, or equivalent
Grease: ORE-LUBE G1/3 or equivalent

1. Apply a drop of oil with an oil applicator to a point about 1/3 the way down the shaft (from the free end) of the flywheels, then insert the shafts into the capstan housings.
2. Apply a suitable amount of light grease to the well of the flywheel bearings.

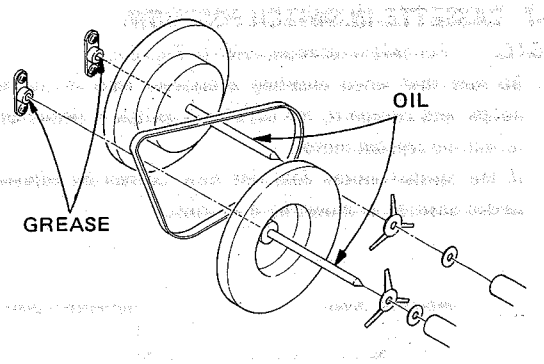


Fig. 4-13

4-13 VOLTAGE COVERSION (FOR GENERAL EXPORT MODELS)

1. Always disconnect the power line cord before making these adjustments.
2. Remove the top cover of the deck by removing two screws on each side and two screws on the top.
3. Locate the voltage selector, shown in the illustration, to the left of the power transformer.
4. Loosen the two screws in the shorting bar and move the bar so that it shorts across the terminals marked with the required voltage (100, 117, 220 or 240).
5. Retighten the screws.
6. Replace the top cover.

NOTE: For cassette deck models with DC Capstan and Reel Motors, no modification is required for change of power line frequency from 60 Hz to 50 Hz and vice versa.

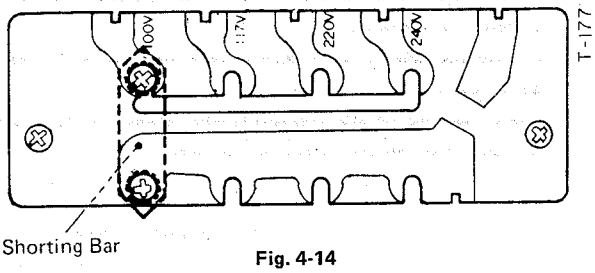


Fig. 4-14

5 ELECTRICAL ADJUSTMENT AND CHECKS

PRECAUTIONS

1. Before performing adjustments and checks, clean and demagnetize the entire tape path.
2. Make sure the deck is properly set for the voltage in your locality.
3. In general, adjustments and checks are done in the order of L-ch then R-ch. Double REF. NOs. indicate L-ch/R-ch. (Example: R11/R21)
4. The value of "dB" refers to 0 dB (0.775 V). If an AC voltmeter calibrated to 0 dB (1 V) is to be used, appropriate compensation should be made.
5. The AC voltmeter used in the procedures must have an input impedance of 1 M-ohms or more.
6. Note the "Deck settings" at the top of each chart. The settings must be used for all the checks or the chart unless explicitly stated otherwise.
7. All the checks in the charts are described under the condition that the BIAS/EQ card (REFERENCE) is plugged into the front panel.

5-1 POWER SUPPLY PCB ADJUSTMENT

1. Adjust R82 for +23 V ±0.5 V DC at terminal 7,8 or 9 of the connector P32 on the PCB to ground.
2. Adjust R81 for +18 V ±0.5 V DC at TP15 on REC AMPL PCB to ground.

5-2 PLAYBACK PERFORMANCE

Deck settings:
MONITOR sw.–TAPE OUTPUT
NR SYSTEM sw.–OUT
EQ sw.–METAL

TEAC test tapes:
MTT-150: For Dolby level calibration
MTT-316: For playback frequency response check for METAL, $Co(CrO_2)$
MTT-216: For playback response check for NORMAL

ITEM	CONNECTION	MODE/ INSTRUCTION	SIGNAL SOURCE	ADJUST (or CHECK)	OUTPUT	REMARKS
1. REC/PLAY head azimuth	Fig. 5-2	OUTPUT cont.– convenient output level position	MTT-316 (12.5 kHz)	Azimuth nut of R/P heads (Fig. 5-3)	•Phase: about 0° on 'scope(Fig. 5-4) •Max. output on VTVM	
2. Phase shift	Fig. 5-2	Same as above	MTT-316 (315 Hz & 12.5 kHz)	Check	Phase: 45°min. (315 Hz), 90°min. (12.5 kHz)	

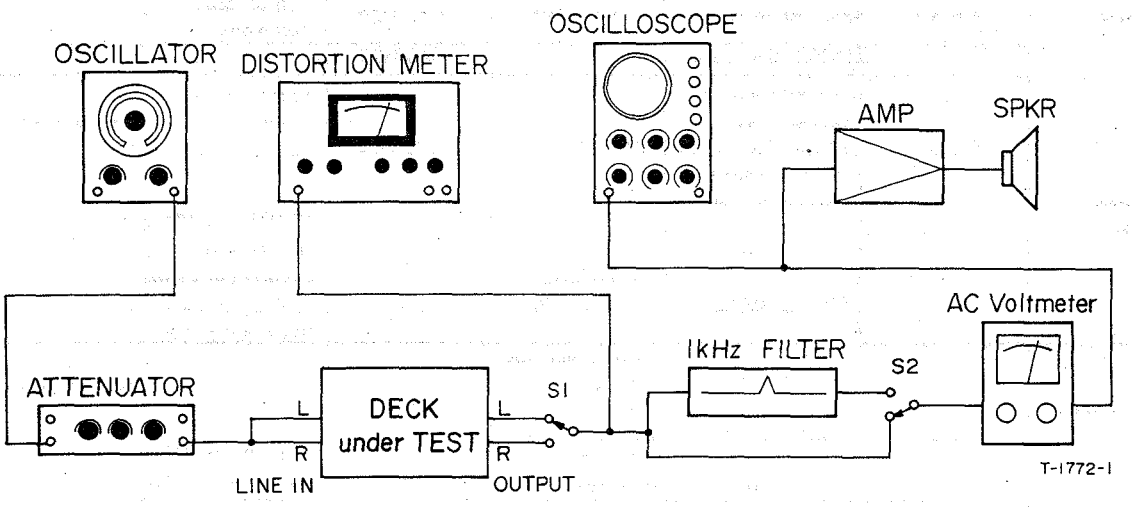


Fig. 5-1

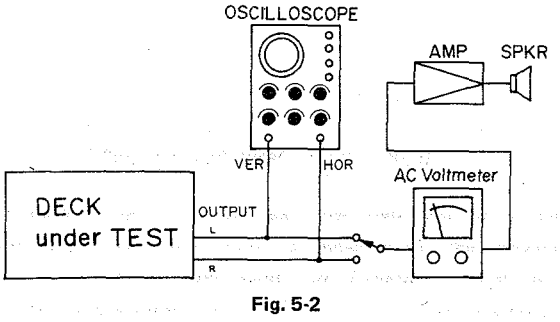


Fig. 5-2

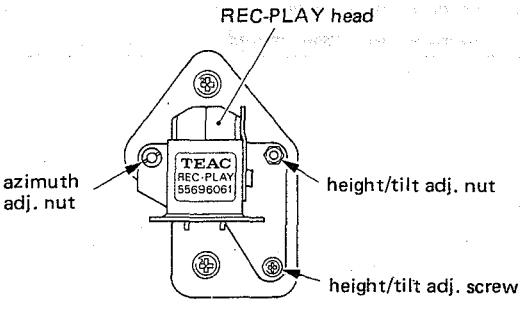


Fig. 5-3

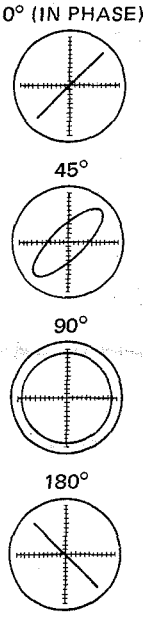


Fig. 5-4 Confirming phase relationship

C-2

ITEM	CONNECTION	MODE/ INSTRUCTION	SIGNAL SOURCE	ADJUST (or CHECK)	OUTPUT	REMARKS
3. Output level	VTVM between TP10/TP20 and TP-E	–	MTT-150	R11/R21	580 mV (–2.5 dB)	
	Fig. 5-1	OUTPUT cont.– Max.	〃	Check	+1 dB ±2 dB (691mV~2.00 V)	Max. output level
	〃	–	〃	OUTPUT cont.	–5 dB (436 mV) at L-ch	Spec. output level (L-ch)
	〃	–	〃	R28 (on PHONE AMPL.)	〃 at R-ch	Spec. output level (R-ch) •**Spec. PB Condition....** Playback cond. w/OUTPUT cont. set in this item •**IMPORTANT: Don't move OUTPUT cont. during any later process.**
4. Peak level meter	Fig. 5-1	Spec. PB cond.	MTT-150	R17/R27	0 dB on peak level meter	
	〃	↓ MONITOR–CAL	〃	R16/R26	〃	
5. Frequency response	Fig. 5-1	Spec. PB cond. EQ–METAL •Adjust for 10 kHz to be the same level as ref. signal	MTT-316	R10/R20	40 Hz~6.3 kHz ±2 dB; 10 kHz +2 –2.5 dB; 14 kHz +2 –3 dB	Ref.: 315 Hz
	〃	↓ EQ–NORMAL	〃 (10 kHz/ –20 dB)	Check	10 kHz output should raise about 5 dB ±1 dB than above actual one.	
6. Signal-to-noise ratio	Fig. 5-1	Spec. PB cond.	Fully erased tape (Use bulk tape eraser)	Check		Ratio of spec. output –5 dB and noise
		METAL	METAL		...52 dB min. ratio	
		$Co(CrO_2)$	MTT-506			
		NORMAL	MTT-501		...48 dB min. ratio	
7. Headphone output level	Fig. 5-5	Spec. PB cond.	MTT-150	Check	–15.8 dB ±2 dB (99.8 mV ~ 158 mV)	•At phone jack •8Ω load

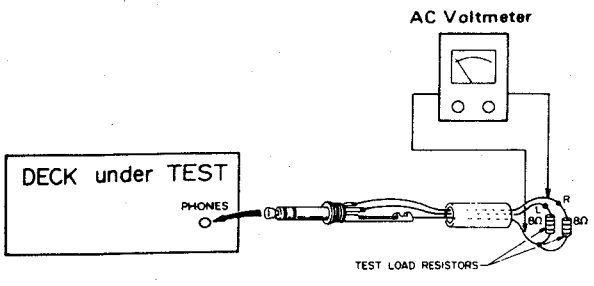


Fig. 5-5

–70 dB or more....What does it mean?

Values in dB are often given like this: "–70 dB or more". This sometimes leads to confusion. Is –76 dB more than –70 dB or less? To put the record straight, the "more" refers to the absolute value. The absolute value of –70 is |70| . The absolute value of –76 is |76| which is 6 more than 70.

So, –76 dB is "more" than –70 dB

–55 dB is "less" than –60 dB

5-3 MONITOR PERFORMANCE

Deck settings:
STOP mode
MONITOR sw.–SOURCE
NR SYSTEM sw.–OUT
INPUT sw.–LINE
OUTPUT cont.–Sepc. position (item 3)

ITEM	CONNECTION	MODE/ INSTRUCTION	SIGNAL SOURCE	ADJUST (or CHECK)	OUTPUT	REMARKS
8. Min. input level	Fig. 5-1 But, LINE IN →MIC	RECORD cont.–Max. INPUT sw.–MIC	400 Hz/–67 dB ±3 dB (245 μV ~ 489 μV)	Check	–5 dB (436 mV)	**NOTE: To prevent mis-measurements, any co-nection cords except these for each input check must be removed.** MIC min. input level
	Fig. 5-1	INPUT sw.–LINE	400 Hz/–19 dB ±2 dB (69.0 mV ~ 109 mV)	〃	〃	LINE min. input level
9. Spec. RECORD cont. setting	Fig. 5-1	–	400 Hz/–9 dB (275 mV)	RECORD cont.	–5 dB (436 mV)	•Spec. LINE input level •**Spec. LINE input condition...**Source monitor cond. w/OUTPUT & RECORD cont's in spec. position •**IMPORTANT: Don't move above cont's during any later process.**
10. Peak level meter	Fig. 5-1	Spec. LINE input cond.	400 Hz/–9 dB (275 mV)	Check	0 dB ±0.5 dB on peak level meter	
11. TEST IN check	Fig. 5-1 But, LINE IN →TEST IN	Spec. LINE input cond. INPUT sw.–TEST	400 Hz/–29 dB (27.5 mV)	Check	–25 dB ±1 dB (38.8 mV ~ 48.9 mV)	
	〃	Record-pause mode MONITOR-TAPE OUTPUT	〃	〃	0 dB ±2 dB on peak level meter	

Deck settings:
MONITOR sw.–TAPE OUTPUT
NR SYSTEM sw.–OUTPUT
INPUT sw.–LINE
OUTPUT cont.–Sepc. position (item 3)
RECORD cont.–Spec. position (item 9)

TEAC test tapes:
MTT-506: For record test with $Co(CrO_2)$
MTT-501: For record test with NORMAL
METAL tape: For record test with METAL

5-4 RECORDING PERFORMANCE

ITEM	CONNECTION	MODE/ INSTRUCTION	SIGNAL SOURCE	ADJUST (or CHECK)	OUTPUT	REMARKS
12. Bias trap	VTVM between TP11/TP21 and TP-E	Record-pause mode	No signal record.	L304/L404	Min. reading	
13. Record bias	Fig. 5-1	Spec. REC cond. METAL/METAL	1 kHz/–42 dB (6.15 mV)	C30/C40 (*)	Peak bias	**Spec. REC condition.....** Record cond. w/OUT-PUT & RECORD cont's in spec. position.
	〃	〃	400 Hz & 10 kHz alternately/–42dB	〃	Nearly equal level at both freq.	
	〃	〃	18 kHz/–42 dB	L301/L401 (**)	18 kHz to be within spec. (Refer item 16)	
	〃	$Co(CrO_2)$/MTT-506	Repeat "METAL/METAL" process by replacing C31/C41 as *, and L302/L402 as **.			
	〃	NORMAL/MTT-501	Repeat "METAL/METAL" process by replacing C32/C42 as *, and L303/L403 as **.			
14. Record level	Fig. 5-1	Spec. REC cond. METAL/METAL $Co(CrO_2)$/MTT-506 NORMAL/MTT-501	400 Hz/–12 dB (195 mV)	R13/R23 R14/R24 R15/R25	–8 dB (308 mV)	
15. Total harmonic distortion	Fig. 5-1	Check w/3 types of tape	400 Hz/–12 dB (195 mV)	Check	2% or less distortion	

C-2

ITEM	CONNECTION	MODE/ INSTRUCTION	SIGNAL SOURCE	ADJUST (or CHECK)	OUTPUT	REMARKS
16. Frequency response	Fig. 5-1	Spec. REC cond. METAL/METAL Co(CrO_2)/MTT-506 NORMAL/MTT-501	Required signal/ −42 dB (6.15 mV)	Check	31.5 Hz $^{+2}_{-4}$ dB 63 Hz ~ 10 kHz ± 2 dB 16 kHz $^{+2}_{-4}$ dB 18 kHz $^{+2}_{-4}$ dB	Ref.: 400 Hz .....NORMAL .....Co(CrO_2) & METAL
	If frequency response is wrong, recheck steps 13 and 15.					
17. Signal-to-noise ratio	Fig. 5-1	Spec. REC cond. METAL/METAL Co(CrO_2)/MTT-506 NORMAL/MTT-501	1 kHz/−9 dB (275 mV) then no signal record.	Check	48 dB min. ratio 45 dB min. ratio	Ratio of spec. output −5 dB and noise
18. Erase efficiency	Fig. 5-1 Switch on 1 kHz filter	Spec. REC cond. METAL/METAL (or Co(CrO_2)/ MTT-506) ●Record 1 kHz. Rewind tape to mid point of recorded portion. Do "no signal" recording. Get difference between 1 kHz portion and its erased portion.	1 kHz/+1 dB (0.869 V) then no signal record.	Check	65 dB min. ratio	
19. REC MUTE function	Fig. 5-1 Switch on 1 kHz filter	●Record 1 kHz. Then push REC MUTE button for several sec. Rewind and play tape. Get difference between 1 kHz portion and the created "no signal" portion.	1 kHz/+1 dB (0.869 V) then no signal record.	Check	65 dB min. ratio	
20. Channel separation	Fig. 5-1 But use LINE IN (L) only as input, Switch on 1 kHz filter	●Set deck in record mode. Find differences between 1 kHz recorded portion (L-ch) and "no signal" portion (R-ch).	1 kHz/−9 dB (275 mV)	Check	35 dB min. ratio	
21. Adjacent track crosstalk	Fig. 5-1 But use LINE IN (R) only as input, and OUTPUT (R) only as OUTPUT	●Record 125Hz on R-ch. Note output level of its recorded portion. Invert tape and play R-ch track. Check leakage level against the output ref. of previously recorded portion.	125 Hz/−9 dB (275 mV)	Check	40 dB min. ratio	
22. Dolby NR effect	Fig. 5-1	●Record 1 kHz with NR SYSTEM sw. to OUT. Play its portion with sw., OUT and DOLBY. Get the output level difference between OUT and DOLBY positions.	1 kHz/−29 dB (27.5 mV)	Check	Variation 3 dB ~ 8 dB	
	〃	●Repeat the above process for 10 kHz.	10 kHz/−39 dB (8.69 mV)	〃	〃, 8 dB ~ 12 dB	

5-5 ADJUSTMENT AND TEST POINT LOCATIONS

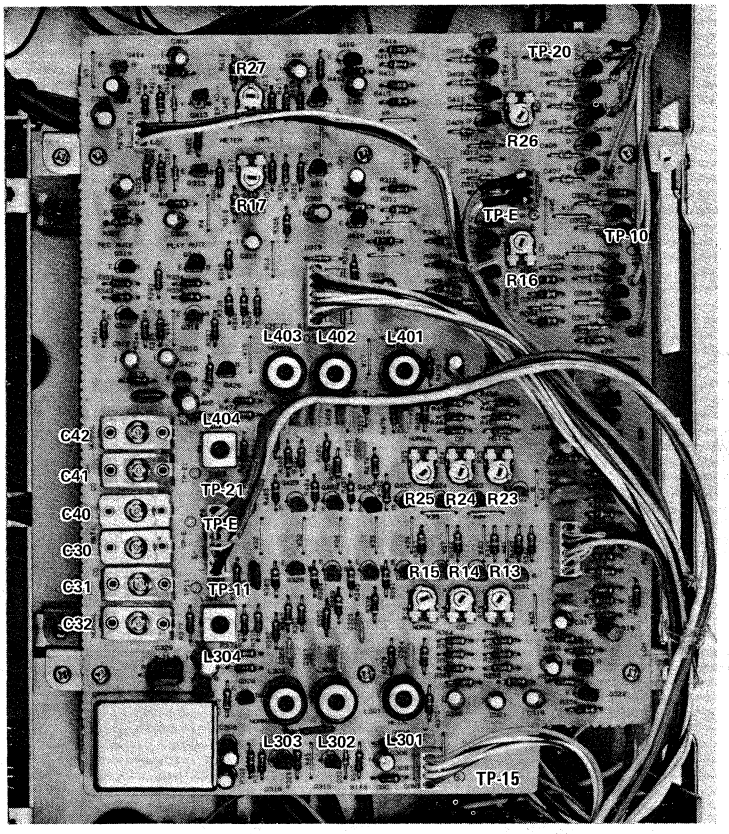


Fig. 5-6

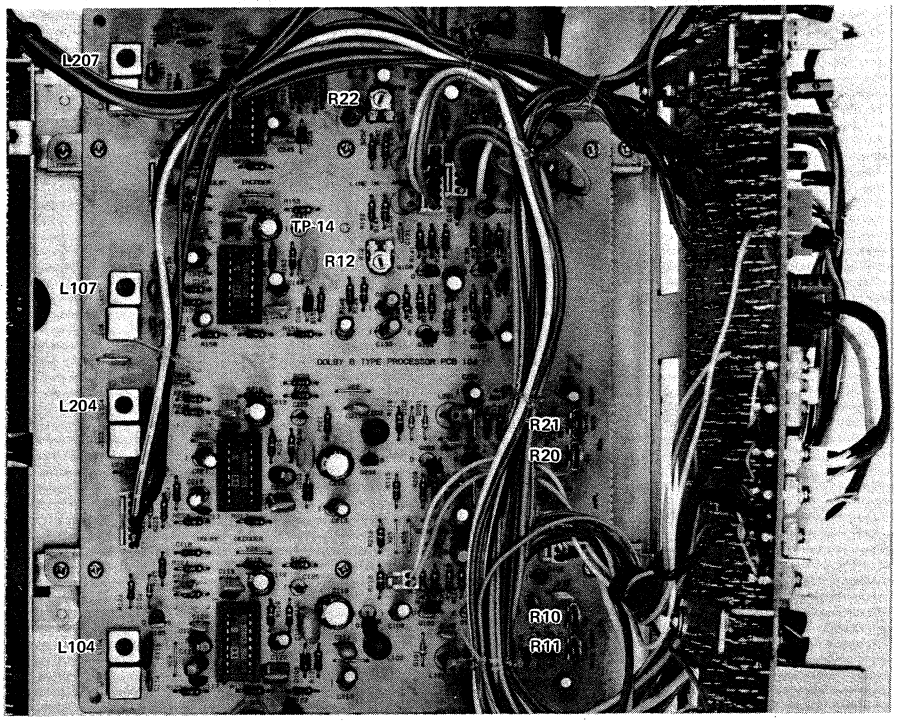
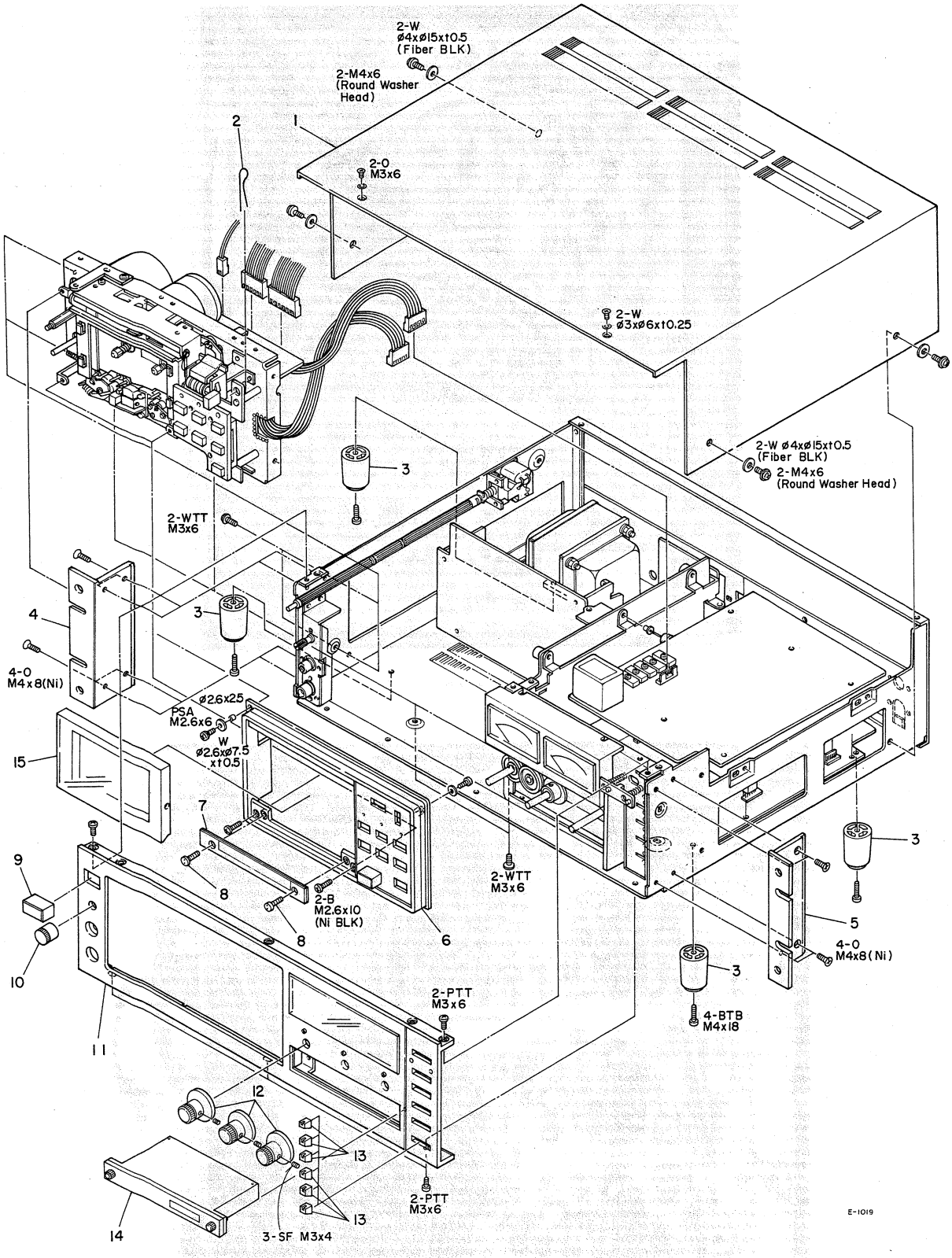


Fig. 5-7

6 EXPLODED VIEWS AND PARTS LIST

EXPLODED VIEW - 1



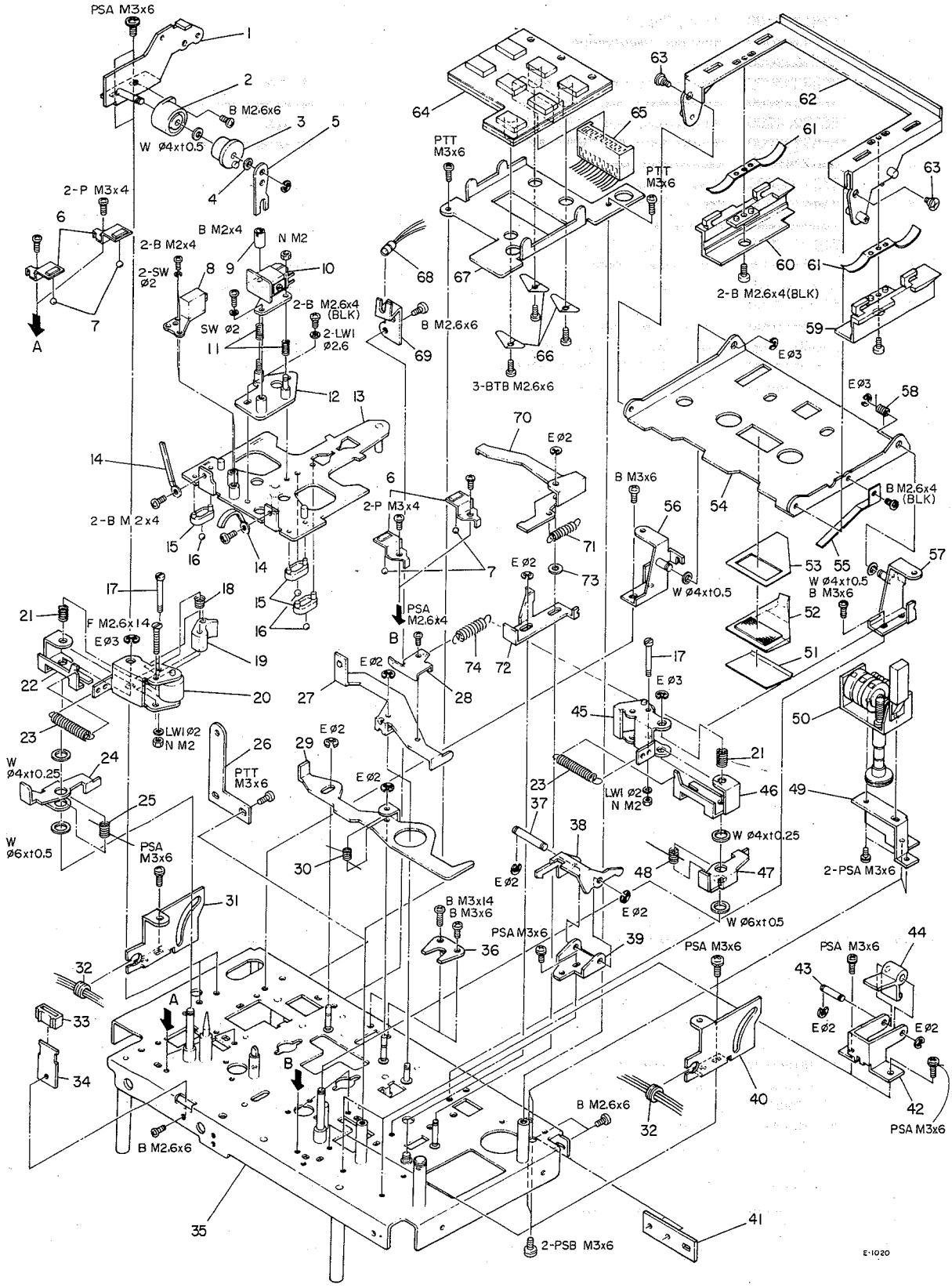
Parts marked with *require longer delivery time than regular parts.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
1 - 1	*5552282100	Cover, Top; A	
1 - 2	*5524163000	Retainer, Escutcheon	
1 - 3	*5504029000	Foot	
1 - 4	*5553233000	Handle Assy, A-L (CREAM)	JAPAN
	*5553235000	Handle Assy, B-L (BROWN)	All except JAPAN
1 - 5	*5553234000	Handle Assy, A-R (CREAM)	JAPAN
	*5553236000	Handle Assy, B-R (BROWN)	All except JAPAN
1 - 6	5502249000	Escutcheon Assy	
1 - 7	5534784000	Cover, Head	
1 - 8	5544729000	Screw, Trim	
1 - 9	5534431000	Button, B	
1 - 10	5504712000	Knob Assy, TIMER	
1 - 11	5502241000	Panel Assy, Front; C	JAPAN
	5502242000	Panel Assy, Front; B	All except JAPAN
1 - 12	5543027100	Knob, VR	
1 - 13	5534521000	Knob, Lever Switch	
1 - 14	*5596078000	CX-8, REFERENCE (CREAM)	JAPAN
	*5596079000	CX-8, REFERENCE (BROWN)	All except JAPAN
1 - 15	5503148000	Cover Assy, Cassette	

INCLUDED ACCESSORIES

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
	5128065000	Cord Assy, Input-output Connection	
	5101369000	Information Supplement, Cassette	JAPAN
	5101345000	Information Supplement, Cassette	U.S.A.
	5101495000	Information Supplement, Cassette	All except JAPAN, U.S.A.
	5740000000	Cover, Side; (A) (B)	JAPAN
	5740000010	Cover, Side; (C) (D)	All except JAPAN
	5544995000	Washer x 4	
	5534659000	Spacer x 4	
		Screw, O M5 x 15 x 4	
	5101682000	C-2 Owner's Manual	JAPAN
	5101683000	C-2 Owner's Manual	U.S.A.
	5101684000	C-2 Owner's Manual	All except JAPAN, U.S.A.

EXPLODED VIEW - 2

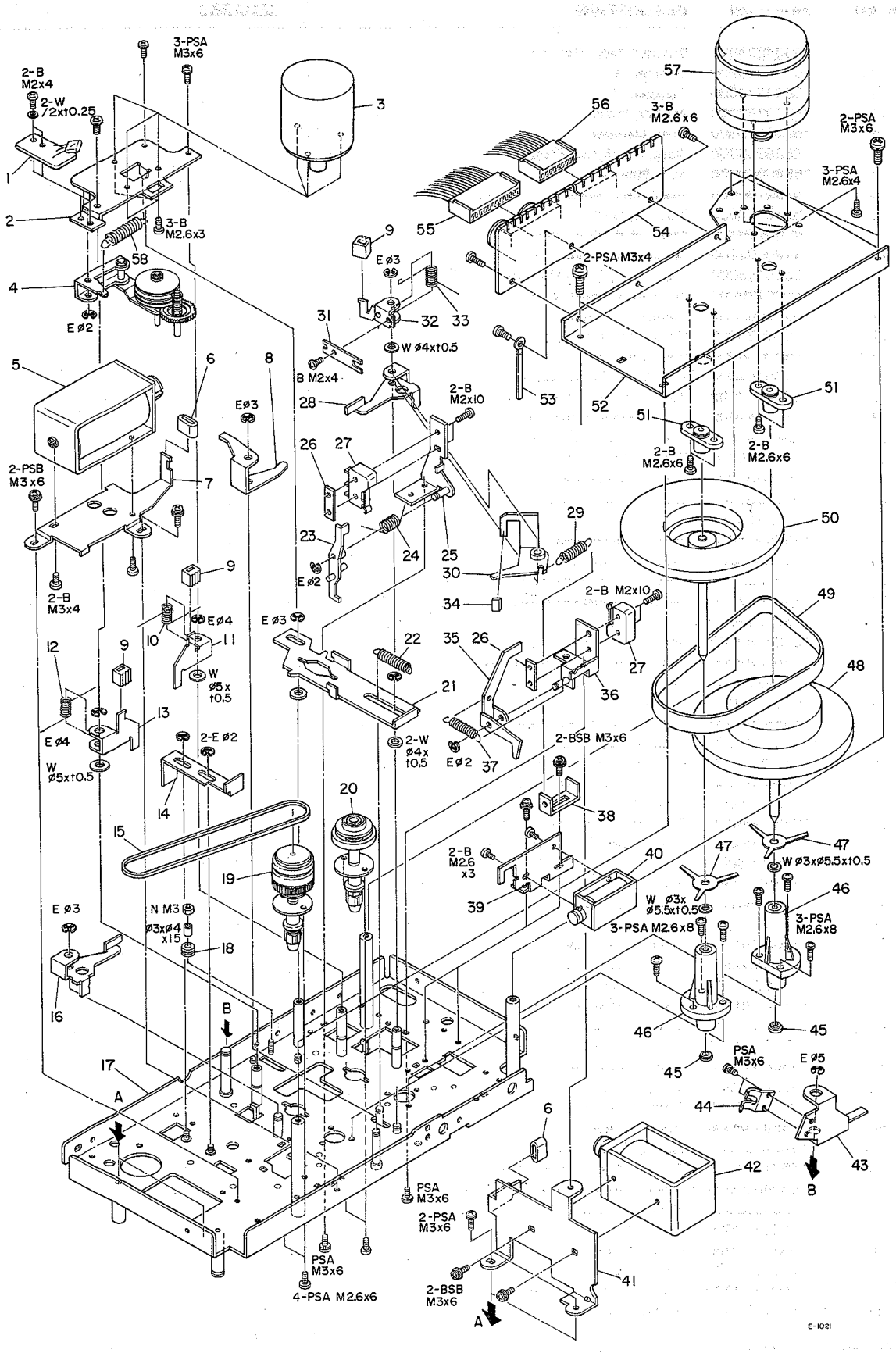


Parts marked with *require longer delivery time than regular parts.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
2 - 1	*5504823000	Bracket Assy, Damper	
2 - 2	*5534839000	Damper, 1	
2 - 3	*5534840000	Damper, 2	
2 - 4	*5555352000	Washer, Wave	
2 - 5	*5555905000	Arm, Damper	
2 - 6	*5555850000	Plate, Head Base Pressure	
2 - 7	*5540055000	Ball, Steel; ϕ2	
2 - 8	5569706000	Head Assy, Erase	
2 - 9	*5545168000	Nut, Azimuth	
2 - 10	5569606100	Head, R/P; Dual Gap	
2 - 11	*5520002100	Spring, Head Adj.	
2 - 12	*5504796000	Plate Assy, Head Mounting	
2 - 13	*5504795000	Plate Assy, Head Base	
2 - 14	*5581062000	Clamper, Cord; E	
2 - 15	*5534524000	Guide, Steel Ball	
2 - 16	*5540056000	Ball, Steel; ϕ3	
2 - 17	5545151000	Pin, Pinch Roller Guide	
2 - 18	*5524277000	Spring, Tape Guide	
2 - 19	5534567000	Guide, Pinch Roller; S	
2 - 20	5504797000	Pinch Roller Assy, L	
2 - 21	*5524266000	Spring, Pinch Roller Arm	
2 - 22	*5555854000	Arm, Pinch Roller; L	
2 - 23	*5524267000	Spring, Pinch Roller	
2 - 24	*5555865000	Arm, Pause; L-B	
2 - 25	*5524271000	Spring, Pause Arm; L	
2 - 26	*5555345000	Bracket, Top Cover; A	
2 - 27	*5555893000	Lever, Cassette Pressure	
2 - 28	*5800003700	Spring, Cassette Pressure	
2 - 29	*5555892000	Arm, Actuating	
2 - 30	*5524280000	Spring, Actuating Arm	
2 - 31	*5555899000	Plate, Cassette Holder Guide; 1	
2 - 32	*5534525000	Bushing, Rubber	
2 - 33	*5534259000	Cushion	
2 - 34	*5555851000	Plate, Head Base Stopper; B	
2 - 35	*5502260000	Chassis Assy, Mechanism	
2 - 36	*5534806000	Plate, Base Plate Stopper; A	
2 - 37	*5545160000	Shaft, Lock Lever	
2 - 38	*5555895000	Lever, Lock	
2 - 39	*5555896000	Bracket, Lock Lever	
2 - 40	*5555900000	Plate, Cassette Holder Guide; 2	
2 - 41	*5555796000	Plate, Joint	
2 - 42	*5555300000	Holder, Eject Cam	
2 - 43	*5544754000	Shaft, Eject Cam	
2 - 44	*5534496000	Cam, Eject	
2 - 45	5504798000	Pinch Roler Assy, R	
2 - 46	*5555856000	Arm, Pinch Roller; R	
2 - 47	*5555864000	Arm, Pause; R-B	
2 - 48	*5524270000	Spring, Pause Arm; R	
2 - 49	*5555303000	Bracket, Counter	
2 - 50	5503232000	Counter Assy, Index	
2 - 51	*5800002900	Plate, Refractive	
2 - 52	5534838000	Lens, Lamp	
2 - 53	*5555902000	Tape, Adhesive	
2 - 54	*5553356000	Holder, Cassette; 2	
2 - 55	*5524281000	Spring, Plate; Stopper	
2 - 56	*5504821000	Bracket Assy, Holder; L	
2 - 57	*5504822000	Bracket Assy, Holder; R	
2 - 58	*5524282000	Spring, Holder	
2 - 59	5533132000	Guide, Cassette; R	
2 - 60	5533133000	Guide, Cassette; L	
2 - 61	*5555305000	Spring, Cassette Pressure	
2 - 62	*5504820000	Holder Assy, Cassette; 1	
2 - 63	*5545159000	Screw, Shoulder	

Continued on page 35

EXPLODED VIEW - 3

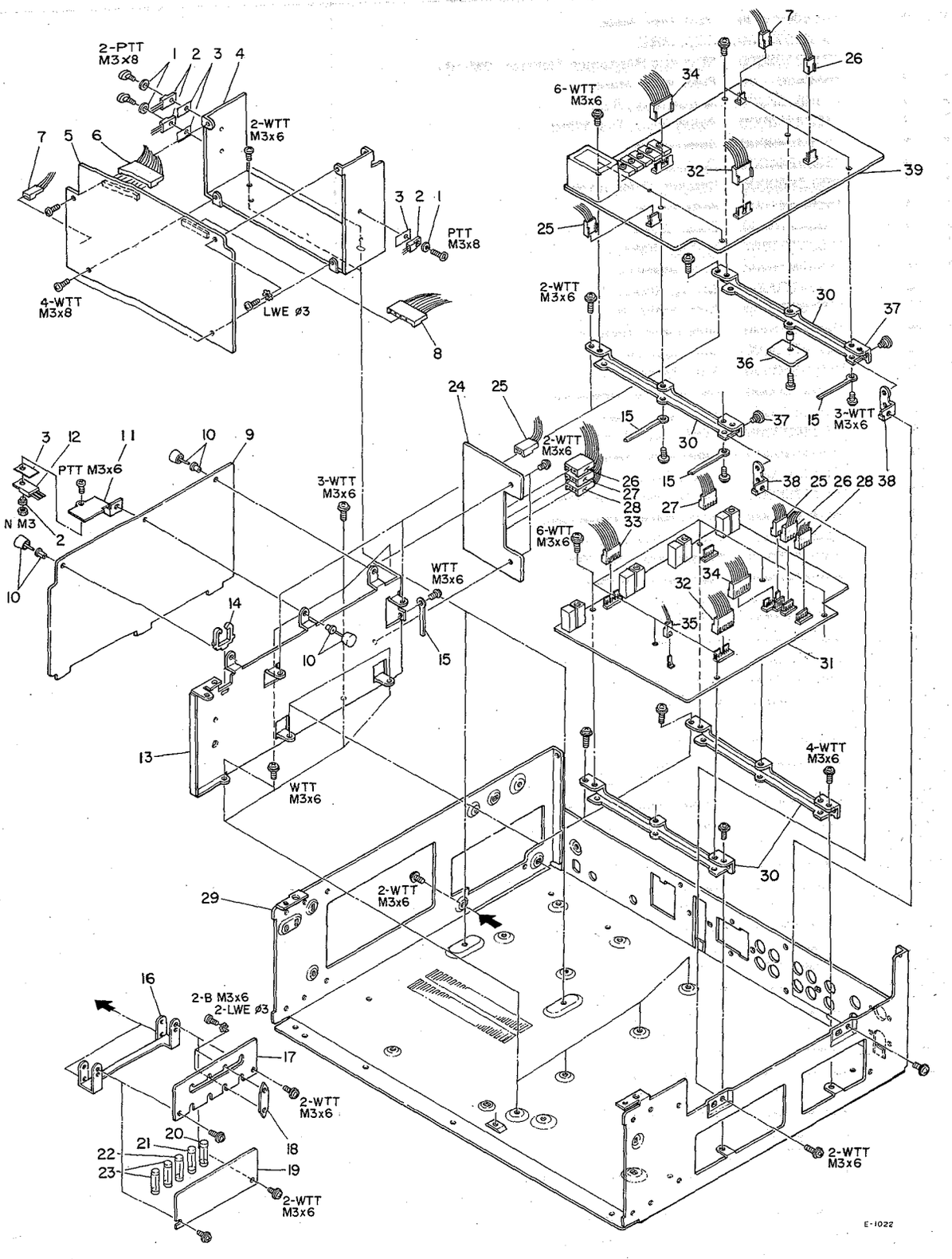


Parts marked with *require longer delivery time than regular parts.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
3 - 1	*5158073000	PCB Assy, MRE	
	*5157073000	PCB, MRE	
	*5143105000	Magnetic Resistance Element, DM-101	
3 - 2	*5504807000	Plate Assy, Motor	
3 - 3	7105135000	Motor Assy, Reel	
3 - 4	5504808000	Pulley Assy, Fast Wind	
3 - 5	5163046000	Solenoid, B	
3 - 6	*5534844000	Cushion	
3 - 7	*5555860000	Bracket, Solenoid B	
3 - 8	*5555861000	Arm, Pause	
3 - 9	*5534116000	Shoe, Brake	
3 - 10	*5524151000	Spring, Brake; L	
3 - 11	*5555871000	Arm, Brake; L	
3 - 12	*5524150000	Spring, Brake; R	
3 - 13	*5555872000	Arm, Brake; R	
3 - 14	*5555891000	Slide Plate, Eject; 2	
3 - 15	5534573000	Belt, Counter; 1	
3 - 16	*5555862000	Arm, Pause; R-A	
3 - 17	*5502260000	Chassis Assy, Mechanism	
3 - 18	*5534537000	Bushing, Rubber	
3 - 19	5504802000	Table Assy, Reel; R	
3 - 20	5504805000	Table Assy, Reel; L	
3 - 21	*5553352000	Lever, Pause	
3 - 22	*5524265000	Spring, Head Base Plate	
3 - 23	*5534841000	Lever, Record Preventing	
3 - 24	*5524284000	Spring, Record Preventing Lever	
3 - 25	*5504825000	Holder Assy, Rec. SW	
3 - 26	*5554447000	Plate, Micro Switch	
3 - 27	5130003000	Switch, Micro	
3 - 28	*5555863000	Arm, Pause; L-A	
3 - 29	*5524213000	Spring, Actuating; A	
3 - 30	*5504854000	Plate Assy, Back Tension	
3 - 31	*5555875000	Spring, Leaf	
3 - 32	*5555874000	Arm, Brake; S	
3 - 33	*5524275000	Spring, Return	
3 - 34	*5555639000	Shoe, Back Tension	
3 - 35	*5555906000	Lever, Detecting	
3 - 36	*5504824000	Holder Assy, Detecting Lever	
3 - 37	*5524283000	Spring, Detecting Lever	
3 - 38	*5555958000	Bracket, Back Tension Plate	
3 - 39	*5555873000	Bracket, Solenoid C	
3 - 40	5163047000	Solenoid, C	
3 - 41	*5553351000	Bracket, Solenoid A	
3 - 42	5163051000	Solenoid, H	
3 - 43	*5555858000	Arm, Base Plate Actuating	
3 - 44	*5554611000	Spring, Pressure	
3 - 45	*5555413000	Washer, Oil Retaining	
3 - 46	*5504799000	Housing Assy, Capstan	
3 - 47	*5555857000	Spring, Thrust	
3 - 48	5504801000	Flywheel Assy, L	
3 - 49	5534810000	Belt, Capstan	
3 - 50	5504800000	Flywheel Assy, R	
3 - 51	*5534811000	Bearing, Flywheel	
3 - 52	*5552483000	Plate, Flywheel	
3 - 53	*5581038000	Clamper, Cord; A	
3 - 54	*5158067000	PCB Assy, CONNECTOR	
3 - 55	*5122172000	Connector, Socket; 10P (White)	
3 - 56	*5122170000	Connector, Socket; 8P (White)	
3 - 57	7105134000	Motor Assy, Capstan	
3 - 58	*5524274000	Spring, Pulley Assy	

C-2

EXPLODED VIEW - 4

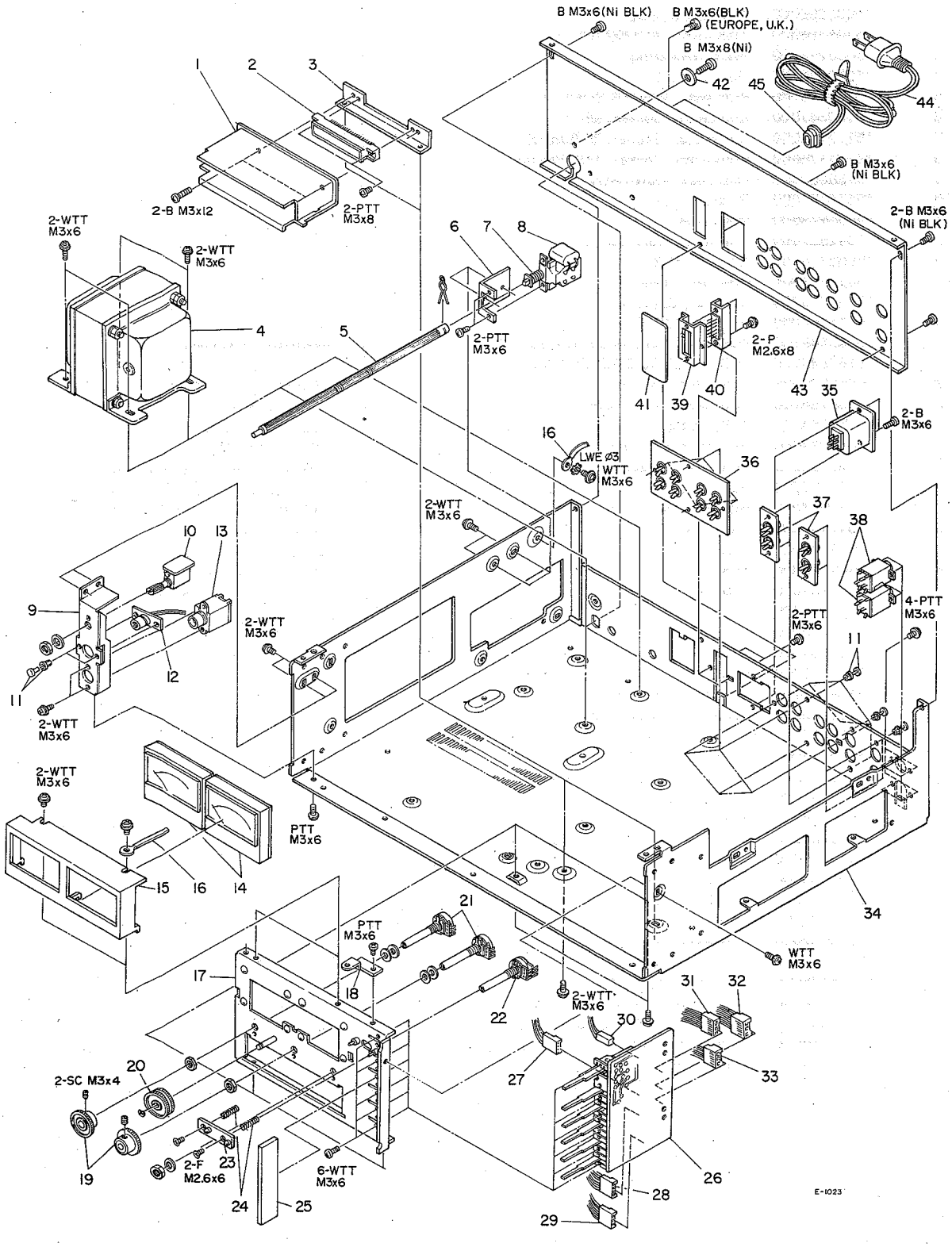


Parts marked with *require longer delivery time than regular parts.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
4 - 1	*5033295000	Tube, Insulating	
4 - 2	*5145108000	Transistor, 2SD762 (P)	
4 - 3	*5033291000	Plate, Insulating	
4 - 4	*5553238100	Heat Sink, A	
4 - 5	5158072000	PCB Assy, POWER SUPPLY	
4 - 6	*5122347000	Connector, Socket; 9P	
4 - 7	*5122165000	Connector, Socket; 3P (White)	
4 - 8	*5122176000	Connector, Socket; 14P (White)	
4 - 9	5158067300	PCB Assy, CONTROL	
4 - 10	*5534473000	Rivet, T-type	
4 - 11	*5555949000	Heat Sink	
4 - 12	*5042527000	Transistor, 2SD288 (K)	
4 - 13	*5552454000	Bracket, PCB	
4 - 14	*5534494000	Clamper, Cord; J	
4 - 15	*5581038000	Clamper, Cord; A	
4 - 16	*5555794000	Bracket, PCB; D	
4 - 17	5168548100	PCB Assy, VOLTAGE SELECTOR	GENERAL EXPORT
	*5167548100	PCB, VOLTAGE SELECTOR	GENERAL EXPORT
4 - 18	*5555062000	Plate, Shorting; A	GENERAL EXPORT
4 - 19	5168754100	PCB Assy, FUSE; 115	U.S.A., CANADA
	*5167754100	PCB, FUSE	U.S.A., CANADA
	*5041237000	Holder, Fuse; Large	U.S.A., CANADA
	*5168755200	PCB Assy, FUSE; 116	EUROPE, U.K., AUSTRALIA
	*5167755200	PCB, FUSE	EUROPE, U.K., AUSTRALIA
	*5142087000	Holder, Fuse; Small	EUROPE, U.K., AUSTRALIA
4 - 20	5041145000	Fuse, 1A	U.S.A., CANADA
	5041141000	Fuse, 1AF	EUROPE, U.K., AUSTRALIA
4 - 21	5041144000	Fuse, 2A	U.S.A., CANADA
	5142187000	Fuse, 1.25AF	EUROPE, U.K., AUSTRALIA
4 - 22	5142091000	Fuse, 3A	U.S.A., CANADA
	5041140000	Fuse, 1AF	EUROPE, U.K., AUSTRALIA
4 - 23	5041157000	Fuse, 4A	U.S.A., CANADA
	5041156000	Fuse, 4AF	EUROPE, U.K., AUSTRALIA
4 - 24	*5158064000	PCB Assy, PHONE AMPL	
4 - 25	*5122166000	Connector, Socket; 4P (White)	
4 - 26	*5122282000	Connector, Socket; 4P (Red)	
4 - 27	*5122167000	Connector, Socket; 5P (White)	
4 - 28	*5122223000	Connector, Socket; 4P (Black)	
4 - 29	*5551043000	Chassis, Amplifier	
4 - 30	*5553368000	Bracket, PCB; A	
4 - 31	5158061000	PCB Assy, DOLBY B TYPE PROCESSOR	
4 - 32	*5122168000	Connector, Socket; 6P (White)	
4 - 33	*5122169000	Connector, Socket; 7P (White)	
4 - 34	*5122170000	Connector, Socket; 8P (White)	
4 - 35	*5122164000	Connector, Socket; 2P (White)	
4 - 36	5200002000	PCB Assy, SW	
	*5210000200	PCB, SW; 143	Part of 4 - 36
	*5145178000	Transistor, 2SC1684 (S)	Part of 4 - 36
	*5183106000	Res., Carbon; 10 k ohm ¼W 5%	Part of 4 - 36
	*5173052800	Cap., Elec.; 220 mfd 6.3V (USM)	Part of 4 - 36
4 - 37	*5581056000	Screw, Shoulder; A	
4 - 38	*5555793000	Bracket, PCB	
4 - 39	5158062000	PCB Assy, RECORD AMP	

C-2

EXPLODED VIEW - 5



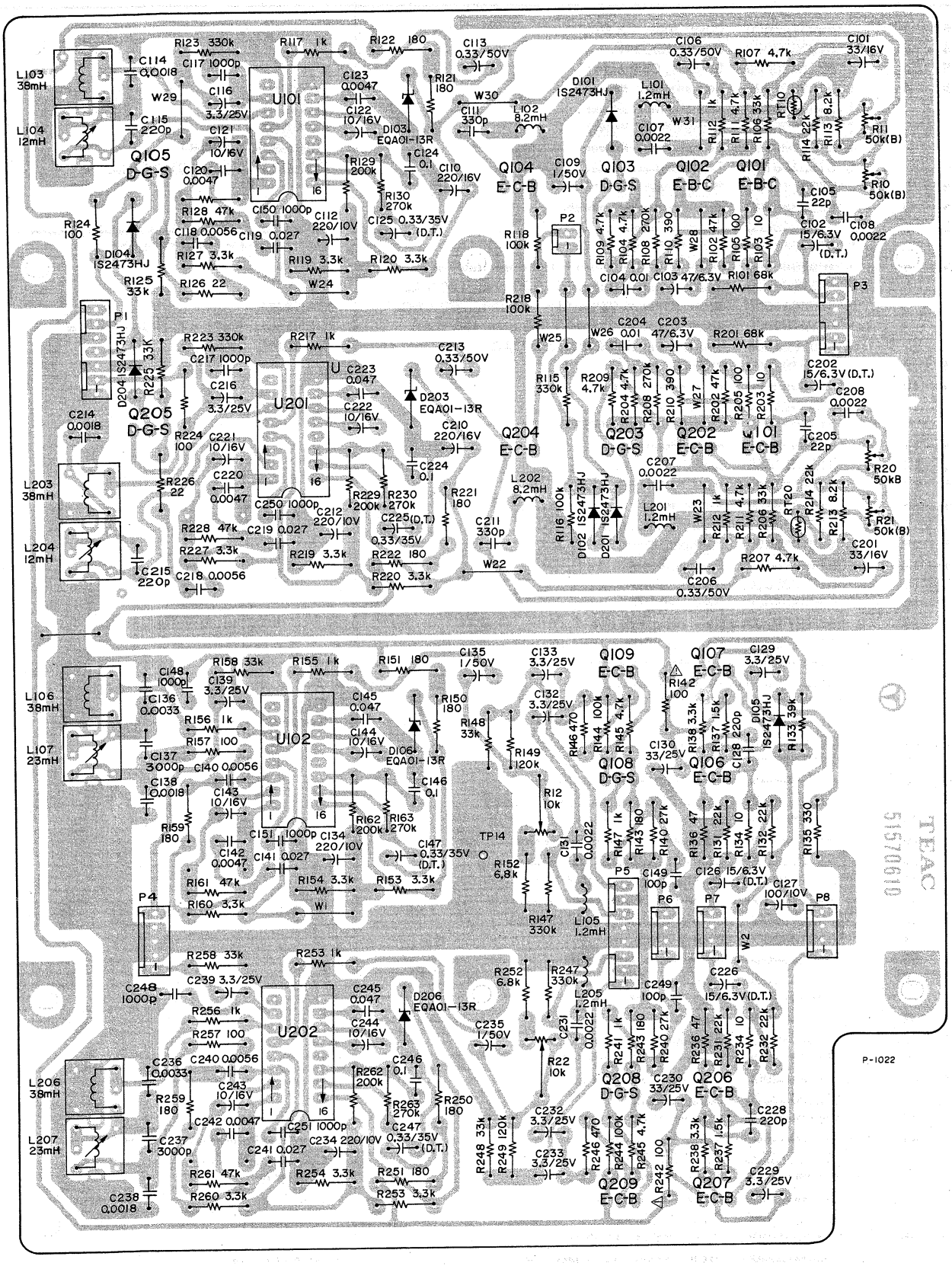
Parts marked with *require longer delivery time than regular parts.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
5 - 1	*5503146000	Cover Assy, CX-8	
5 - 2	*5122337000	Connector, 14P	
5 - 3	*5555336000	Bracket, Connector	
5 - 4	⚠ 5152091000	Transformer, Power	JAPAN
	⚠ 5152105000	Transformer, Power	U.S.A.
	⚠ 5152106000	Transformer, Power	CANADA
	⚠ 5152107000	Transformer, Power	GENERAL EXPORT
	⚠ 5152108100	Transformer, Power	EUROPE, U.K., AUSTRALIA
5 - 5	*5534516000	Rod, Power Switch	
5 - 6	*5555339000	Bracket, Power Switch	
5 - 7	⚠ 5134046000	Switch, Power	All except EUROPE, U.K., AUSTRALIA
	⚠ 5134011000	Switch, Power	EUROPE, U.K., AUSTRALIA
5 - 8	⚠*5052905000	Spark Killer, 0.1 mfd + 120 ohm 300 VAC	JAPAN
	⚠*5052906000	Spark Killer, 0.033 mfd + 120 ohm 125 VAC	U.S.A.
	⚠*5052911000	Spark Killer, 0.033 mfd + 120 ohm 250 VAC	CANADA
	⚠*5052907000	Spark Killer, 0.01 mfd + 300 ohm 400 V AC	GENERAL EXPORT, AUSTRALIA
	⚠*5052908000	Spark Killer, 4700 pfd 250 VAC	EUROPE, U.K.
5 - 9	*5555792000	Bracket, Jack	
5 - 10	*5158069000	PCB Assy, TIMER	
	*5157069000	PCB, TIMER	Part of 5 - 10
	5133017000	Switch, Rotary; 4P3T	
5 - 11	*5534878000	Rivet, Push; B	
5 - 12	5124057000	Jack, TEST IN	
5 - 13	5124022000	Jack, PHONES	
5 - 14	5165053100	Meter, Peak	
5 - 15	*5533137000	Escutcheon, Meter	
5 - 16	*5581038000	Clamper, Cord; A	
5 - 17	*5503145000	Chassis, Front	
5 - 18	*5555335000	Bracket, Top Cover; B	
5 - 19	5504568000	Gear Assy, A	
5 - 20	*5504569200	Gear Assy, Friction	
5 - 21	5150223000	Var. Res., 100 k ohm - A	
5 - 22	5150253000	Var. Res., 50 k ohm - A x 2	
5 - 23	*5168701000	PCB Assy, LED	
	*5167701000	PCB, LED	Part of 5 - 23
	*5143047000	LED	Part of 5 - 23
5 - 24	*5524082000	Spring, LED; B	
5 - 25	*5555490000	Mask	
5 - 26	*5158068000	PCB Assy, SW	
5 - 27	*5122174000	Connector, Socket; 12P (White)	
5 - 28	*5122165000	Connector, Socket; 3P (White)	
5 - 29	*5122167000	Connector, Socket; 5P (White)	
5 - 30	*5122221000	Connector, Socket; 2P (Black)	
5 - 31	*5122169000	Connector, Socket; 7P (White)	
5 - 32	*5122164000	Connector, Socket; 2P (White)	
5 - 33	*5122168000	Connector, Socket; 6P (White)	
5 - 34	*5551043000	Chasis, Amplifier	
5 - 35	5122339000	Connector, Socket; 6P	
5 - 36	5126028000	Jack Assy, 8P	
5 - 37	*5043463200	Jack Assy, 2P	
5 - 38	*5124023000	Jack, MIC	
5 - 39	*5554099100	Bracket, Connector	
5 - 40	*5122336000	Connector, Socket; 12P	
5 - 41	*5158102000	PCB Assy, REMOTE	
5 - 42	*5555063000	Washer, GND	
5 - 43	*5552457000	Chassis, Rear	
5 - 44	⚠*5128034000	Cord, AC Power	JAPAN, GENERAL EXPORT
	⚠ 5128075000	Cord, AC Power	U.S.A., CANADA
	⚠*5128018000	Cord, AC Power	EUROPE
	⚠*5128047000	Cord, AC Power	U.K.
	⚠*5128031000	Cord, AC Power	AUSTRALIA
5 - 45	*5534661000	Strain Relief, AC Power Cord	U.K.
	*5534663000	Strain Relief, AC Power Cord	AUSTRALIA
	*5534660000	Strain Relief, AC Power Cord	All except U.K., AUSTRALIA

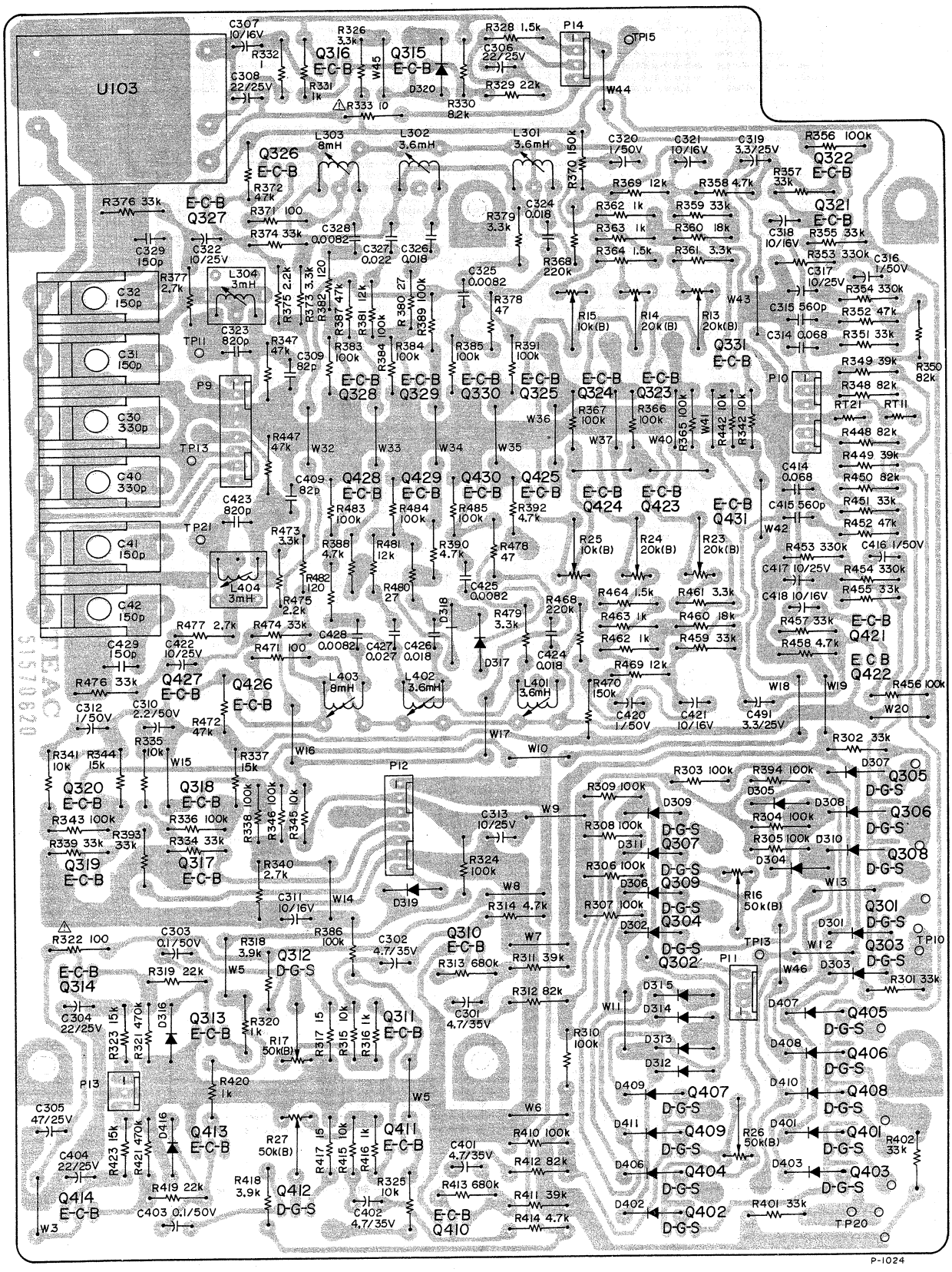
7 PC BOARDS AND PARTS LIST

PC Boards shown viewed from foil side.

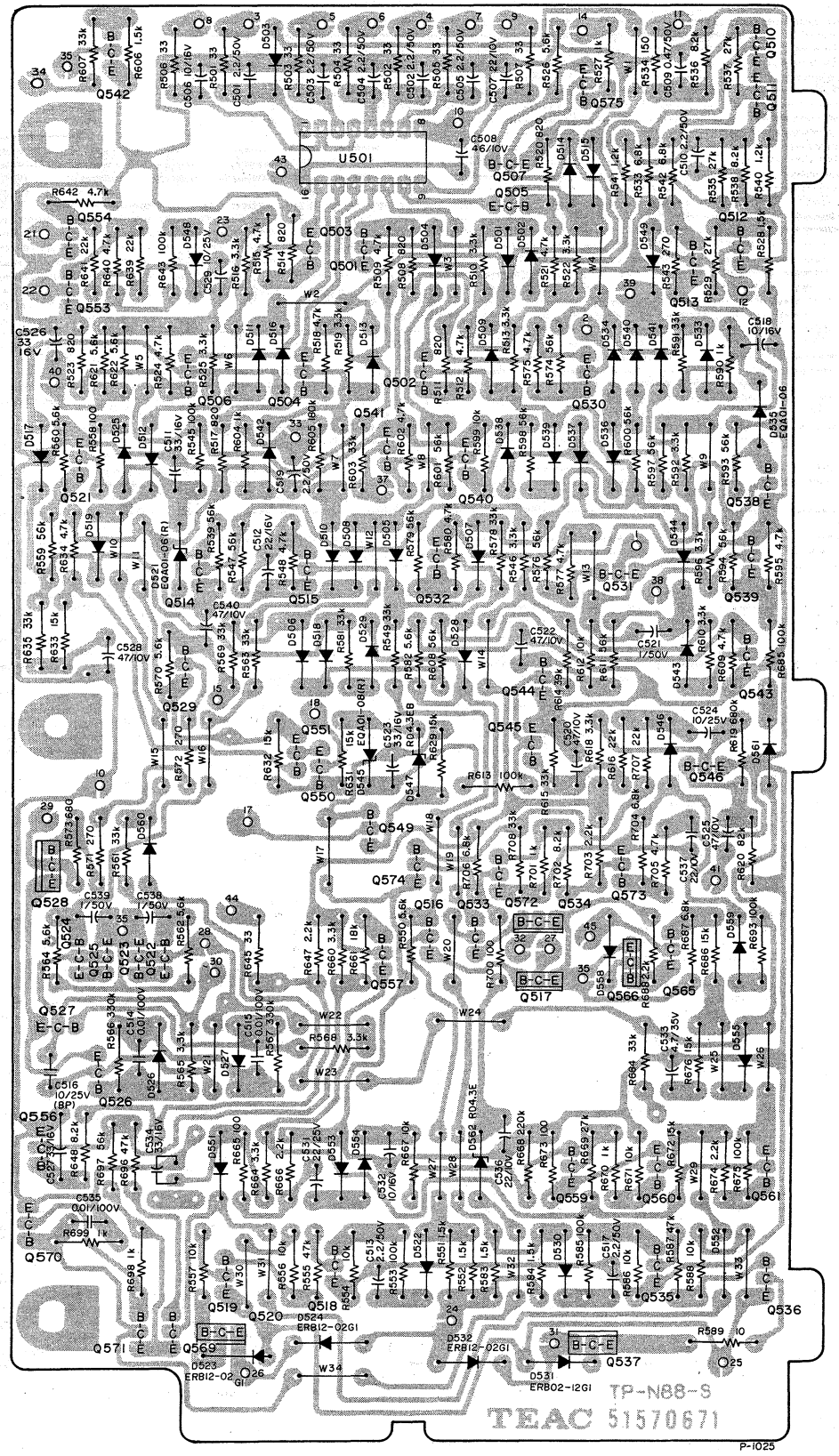
DOLBY B TYPE PROCESSOR PCB ASSY



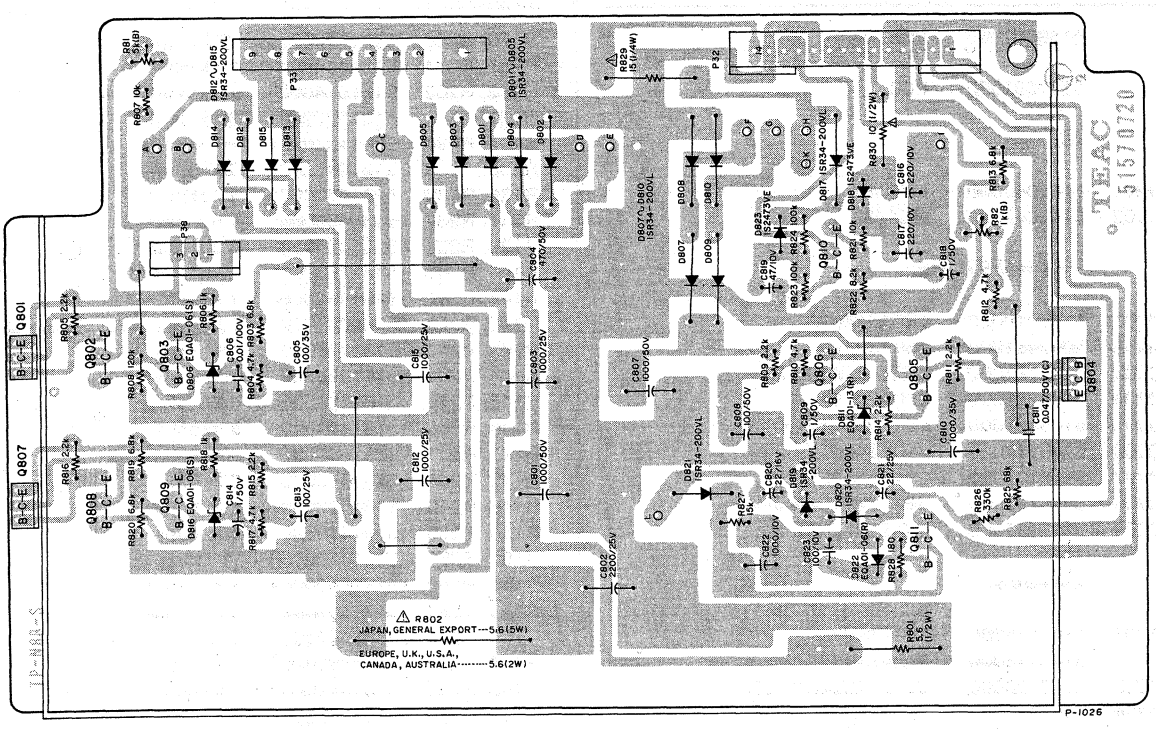
REC AMPL PCB ASSY



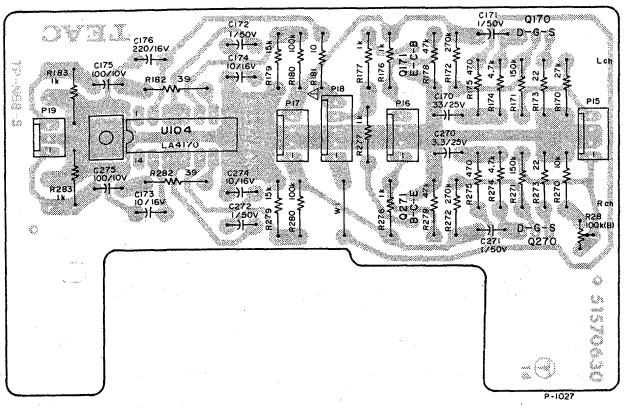
CONTROL PCB ASSY



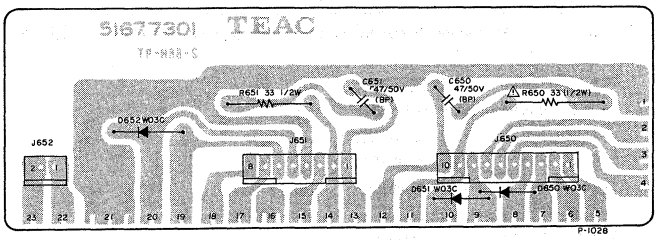
POWER SUPPLY PCB ASSY



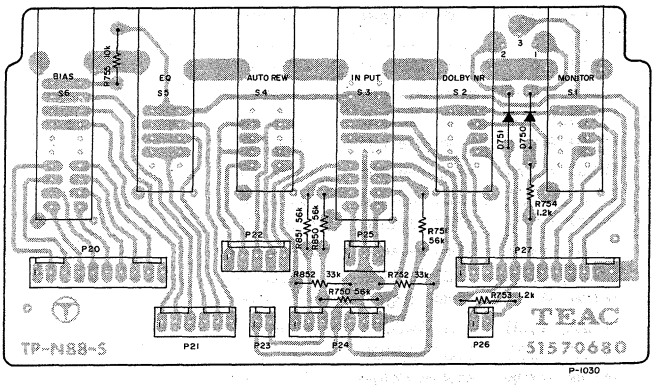
PHONE AMPL PCB ASSY



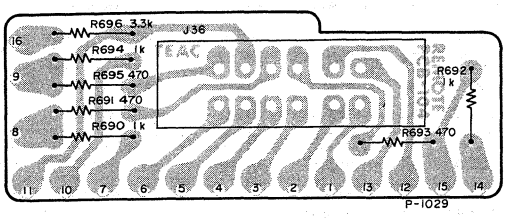
CONNECTOR PCB ASSY



SW PCB ASSY



REMOTE PCB ASSY



C-2

DOLBY B TYPE PROCESSOR PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5158061000	PCB Assy
	5157061000	PCB
	ICs	
U101, U201	5147040000	NE645B
U102, U202	5147040000	NE645B
	TRANSISTORS	
Q101, Q201	5145119000	2SC1844(F)
Q102, Q202	5042461000	2SC1327(T)
Q103, Q203	5145181000	FET, 2SK105(H)
Q104, Q204	5145185000	2SD655(E)
Q105, Q205	5145181000	FET, 2SK105(H)
Q106, Q206	5145119000	2SC1844(F)
Q107, Q207	5145132000	2SA933LN(S)
Q108, Q208	5145183000	FET, 2SK68AM(1)
Q109, Q209	5145132000	2SA933LN(S)
	DIODES	
D101, D201	5143118000	1S2473HJ
D102	5143118000	1S2473HJ
D103, D203	5143198000	Zener, EQA01-13R
D104, D204	5143118000	1S2473HJ
D105	5143118000	1S2473HJ
D106, D206	5143198000	Zener, EQA01-13R
	RESISTORS	
	All resistors are rated ±5% tolerance, ¼ watt and of carbon type unless otherwise noted.	
R101, R201	5181526000	68 k ohm
R102, R202	5181522000	47 k ohm
R103, R203	5181434000	10 ohm
R104, R204	5181498000	4.7 k ohm
R105, R205	5181458000	100 ohm
R106, R206	5181518000	33 k ohm
R107, R207	5181498000	4.7 k ohm
R108, R208	5181540000	270 k ohm
R109, R209	5181498000	4.7 k ohm
R110, R210	5181472000	390 k ohm
R111, R211	5181498000	4.7 k ohm
R112, R212	5181482000	1 k ohm
R113, R213	5181504000	8.2 k ohm
R114, R214	5181514000	22 k ohm
R115	5181542000	330 k ohm
R116	5181530000	100 k ohm
R117, R217	5181482000	1 k ohm
R118, R218	5181530000	100 k ohm
R119, R219	5181494000	3.3 k ohm
R120, R220	5181494000	3.3 k ohm
R121, R221	5181464000	180 ohm
R122, R222	5181464000	180 ohm
R123, R223	5181542000	330 k ohm
R124, R224	5181458000	100 ohm
R125, R225	5181518000	33 k ohm
R126, R226	5181442000	22 ohm
R127, R227	5181494000	3.3 k ohm
R128, R228	5181522000	47 k ohm
R129, R229	5181537000	200 k ohm
R130, R230	5181540000	270 k ohm
R131, R231	5181514000	22 k ohm
R132, R232	5181514000	22 k ohm
R133	5181520000	39 k ohm
R134, R234	5181434000	10 ohm
R135	5181470000	330 ohm
R136, R236	5181450000	47 ohm
R137, R237	5181486000	1.5 k ohm
R138, R238	5181494000	3.3 k ohm
R140, R240	5181156000	27 k ohm
R141, R241	5181482000	1 k ohm
R142, R242	⚠5184249000	100 ohm Non Flammable
R143, R243	5181470000	180 ohm
R144, R244	5181530000	100 k ohm
R145, R245	5181498000	4.7 k ohm
R146, R246	5181474000	470 ohm
R147, R247	5181542000	330 k ohm
R148, R248	5181518000	33 k ohm
R149, R249	5181532000	120 k ohm
R150, R250	5181470000	180 ohm
R151, R251	5181470000	180 ohm
R152, R252	5181502000	6.8 k ohm
R153, R253	5181494000	3.3 k ohm
R154, R254	5181494000	3.3 k ohm
R155, R255	5181482000	1 k ohm
R156, R256	5181482000	1 k ohm
R157, R257	5181458000	100 ohm
R158, R258	5181518100	33 k ohm
R159, R259	5181470000	180 ohm
R160, R260	5181494000	3.3 k ohm
R161, R261	5181522000	47 k ohm
R162, R262	5181537000	200 k ohm
R163, R263	5181540000	270 k ohm
	CAPACITORS	
C101, C201	5173168800	Elec. 33 mfd 16V (USM)
C102, C202	5172116100	Dip. Tant. 15 mfd 6.3V
C103, C203	5173587800	Elec. 47 mfd 6.3V (MD)
C104, C204	5171856800	Mylar 0.01 mfd 100V 5%
C105, C205	5172204000	Ceramic 22 pfd 50V
C106, C206	5173636800	Elec. 0.33 mfd 50V (MD)
C107, C207	5170360800	Mylar 0.0022 mfd 100V 5%
C108, C208	5170360800	Mylar 0.0022 mfd 100V 5%
C109	5173642800	Elec. 1 mfd 50V (MD)
C110, C210	5173054800	Elec. 220 mfd 16V (USM)
C111, C211	5173766000	Polyst. 330 pfd 100V 5%
C112, C212	5173200800	Elec. 220 mfd 10V (USM)
C113, C213	5173636800	Elec. 0.33 mfd 50V (MD)
C114, C214	5170407800	Mylar 0.0018 mfd 100V 5%
C115, C215	5054745000	Dip. Mica. 220 pfd 50V 10%
C116, C216	5173652800	Elec. 3.3 mfd 25V (MD)
C117, C217	5172224000	Ceramic 1000 pfd 50V 5%
C118, C218	5170370800	Mylar 0.0056 mfd 100V 5%
C119, C219	5171866800	Mylar 0.027 mfd 100V 5%
C120, C220	5170368800	Mylar 0.0047 mfd 100V 5%
C121, C221	5173140800	Elec. 10 mfd 16V (USM)
C122, C222	5173140800	Elec. 10 mfd 16V (USM)
C123, C223	5171872800	Mylar 0.047 mfd 100V 5%
C124, C224	5171878800	Mylar 0.1 mfd 100V 5%
C125, C225	5171906100	Dip. Tant. 0.33 mfd 35V
C126, C226	5172116000	Dip. Tant. 15 mfd 6.3V
C127	5173192800	Elec. 100 mfd 10V (USM)

REF. NO.	PARTS NO.	DESCRIPTION		
C128, C228	5172216000	Ceramic	220 pfd	50V
C129, C229	5173652800	Elec.	33 mfd	25V (MD)
C130, C230	5173170800	Elec.	33 mfd	25V
C131, C231	5170360800	Mylar	0.0022 mfd	100V 5%
C132, C232	5173652800	Elec.	3.3 mfd	25V (MD)
C133, C233	5173652800	Elec.	3.3 mfd	25V (MD)
C134, C234	5173200800	Elec.	220 mfd	10V (USM)
C135, C235	5173642800	Elec.	1 mfd	50V (MD)
C136, C236	5170364800	Mylar	0.0033 mfd	100V 5%
C137, C237	5173793000	Polyst.	3000 pfd	100V 5%
C138, C238	5170407800	Mylar	0.0018 mfd	100V 5%
C139, C239	5173652800	Elec.	3.3 mfd	25V (MD)
C140, C240	5171370800	Mylar	0.0056 mfd	100V 5%
C141, C241	5171866800	Mylar	0.027 mfd	100V 5%
C142, C242	5170368800	Mylar	0.0047 mfd	100V 5%
C143, C243	5173140800	Elec.	10 mfd	16V (USM)
C144, C244	5173140800	Elec.	10 mfd	16V (USM)
C145, C245	5171872800	Mylar	0.047 mfd	100V 5%
C146, C246	5171878800	Mylar	0.1 mfd	100V 5%
C147, C247	5171906100	Dip. Tant.	0.33 mfd	35V
C148, C248	5172224000	Ceramic	1000 pfd	50V 5%
C149, C249	5172212000	Ceramic	100 pfd	50V 5%
C150, C250	5172224000	Ceramic	1000 pfd	50V 5%
C151, C251	5172324000	Ceramic	1000 pfd	50V 5%
	VARIABLE RESISTORS			
R10, R20	5150156000	Semi-fixed,50 k ohm - B		
R11, R21	5150156000	Semi-fixed,50 k ohm - B		
R12, R22	5150092000	Semi-fixed,10 k ohm - B		
	COILS			
L101, L201	5160147000	Choke, 1.2 mH		
L102, L202	5160161000	Choke, 8.2 mH		
L103, L203	5056666000	Choke, 38 mH		
L104, L204	5056655000	Trap, 12 mH		
L105, L205	5160147000	Choke, 1.2 mH		
L106, L206	5056666000	Choke, 38 mH		
L107, L207	5056665000	Choke, 23 mH		
	MISCELLANEOUS			
RT10, RT20	5143127000	Thermistor, S5C14		
P1	5122131000	Connector, Plug; 7P	(White)	
P2	5122126000	Connector, Plug; 2P	(White)	
P3	5122130000	Connector, Plug; 6P	(White)	
P4	5122129000	Connector, Plug; 5P	(White)	
P5	5122132000	Connector, Plug; 8P	(White)	
P6	5122128000	Connector, Plug; 4P	(White)	
P7	5122301000	Connector, Plug; 4P	(Red)	
P8	5122185000	Connector, Plug; 4P	(Black)	
TP14	5544750000	Pin, Combination		
	5147016000	Socket, IC; 16P		

REC AMPL PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5158062000	PCB Assy
	5157062000	PCB
	TRANSISTORS	
Q301, Q401	5145181000	FET, 2SK105(H)
Q302, Q402	5145181000	FET, 2SK105(H)
Q303, Q403	5145181000	FET, 2SK105(H)
Q304, Q404	5145181000	FET, 2SK105(H)
Q305, Q405	5145181000	FET, 2SK105(H)
Q306, Q406	5145181000	FET, 2SK105(H)
Q307, Q407	5145181000	FET, 2SK105(H)
Q308, Q408	5145181000	FET, 2SK105(H)
Q309, Q409	5145181000	FET, 2SK105(H)
Q310, Q410	5042461000	2SC1327(T)
Q311, Q411	5145178000	2SC1684(S)
Q312, Q412	5145183000	FET, 2SK68AM1
Q313, Q413	5145110000	2SC1637(I)
Q314, Q414	5145110000	2SC1637(I)
Q315	5042486000	2SC536G
Q316	5145082000	2SC2060(Q)
Q317	5145178000	2SC1684(S)
Q318	5145132000	2SA933LN(S)
Q319	5145178000	2SC1684(S)
Q320	5145132000	2SA933LN(S)
Q321, Q421	5145178000	2SC1684(S)
Q322, Q422	5145132000	2SA933LN(S)
Q323, Q423	5042486000	2SC536G
Q324, Q424	5042486000	2SC536G
Q325, Q425	5042486000	2SC536G
Q326, Q426	5145178000	2SC1684(S)
Q327, Q427	5145132000	2SA933LN(S)
Q328, Q428	5042486000	2SC536G
Q329, Q429	5042486000	2SC536G
Q330, Q430	5042486000	2SC536G
Q331, Q431	5145185000	2SD655(E)
	DIODES	
D301, D401	5143118000	1S2473HJ
D302, D402	5143118000	1S2473HJ
D303, D403	5143118000	1S2473HJ
D304	5143118000	1S2473HJ
D305	5143118000	1S2473HJ
D306, D406	5143118000	1S2473HJ
D307, D407	5143118000	1S2473HJ
D308, D408	5143118000	1S2473HJ
D309, D409	5143118000	1S2473HJ
D310, D410	5143118000	1S2473HJ
D311, D411	5143118000	1S2473HJ
D312	5143118000	1S2473HJ
D313	5143118000	1S2473HJ
D314	5143118000	1S2473HJ
D315	5143118000	1S2473HJ
D316, D416	5143118000	1S2473HJ
D317	5143118000	1S2473HJ
D318	5143118000	1S2473HJ
D319	5143118000	1S2473HJ
D320	5143118000	1S2473HJ

C-2

REF. NO.	PARTS NO.	DESCRIPTION
	RESISTORS	
	All resistors are rated ±5% tolerance, ¼ watt and of carbon type unless otherwise noted.	
R301, R401	5181518000	33 k ohm
R302, R402	5081518000	33 k ohm
R303	5181530000	100 k ohm
R304	5181530000	100 k ohm
R305	5181530000	100 k ohm
R306	5181530000	100 k ohm
R307	5181530000	100 k ohm
R308	5181530000	100 k ohm
R309	5181530000	100 k ohm
R310, R410	5181530000	100 k ohm
R311, R411	5181520000	39 k ohm
R312, R412	5181528000	82 k ohm
R313, R413	5181550000	680 k ohm
R314, R414	5181498000	4.7 k ohm
R315, R415	5181506000	10 k ohm
R316, R416	5181482000	1 k ohm
R317, R417	5181438000	15 ohm
R318, R418	5181496000	3.9 k ohm
R319, R419	5181514000	22 k ohm
R320, R420	5181482000	1 k ohm
R321, R421	5181546000	470 k ohm
R322	⚠5184249000	100 ohm Non Flammable
R323, R423	5181510000	15 k ohm
R324	5181530000	100 k ohm
R325	5181506000	10 k ohm
R326	5181494000	3.3 k ohm
R328	5181486000	1.5 k ohm
R329	5181514000	22 k ohm
R330	5181504000	8.2 k ohm
R331	5181482000	1 k ohm
R332	5181410000	1 ohm
R333	⚠5184225000	10 ohm Non Flammable
R334	5181518000	33 k ohm
R335	5181506000	10 k ohm
R336	5181530000	100 k ohm
R337	5181510000	15 k ohm
R338	5181530000	100 k ohm
R339	5181518000	33 k ohm
R340	5181492000	2.7 k ohm
R341	5181506000	10 k ohm
R342, R442	5181506000	10 k ohm
R343	5181530000	100 k ohm
R344	5181510000	15 k ohm
R345	5181516000	10 k ohm
R346	5181530000	100 k ohm
R347, R447	5181522000	47 k ohm
R348, R448	5181528000	82 k ohm
R349, R449	5181520000	39 k ohm
R350, R450	5181528000	82 k ohm
R351, R451	5181518000	33 k ohm
R352, R452	5181522000	47 k ohm
R353, R453	5181542000	330 k ohm
R354, R454	5181542000	330 k ohm
R355, R455	5181518000	33 k ohm
R356, R456	5181530000	100 k ohm
R357, R457	5181518000	33 k ohm
R358, R458	5181498000	4.7 k ohm
R359, R459	5181518000	33 k ohm
R360, R460	5181512000	18 k ohm

REF. NO.	PARTS NO.	DESCRIPTION
R361, R461	5181494000	3.3 k ohm
R362, R462	5181482000	1 k ohm
R363, R463	5181482000	1 k ohm
R364, R464	5181486000	1.5 k ohm
R365	5181530000	100 k ohm
R366	5181530000	100 k ohm
R367	5181530000	100 k ohm
R368, R468	5181538000	220 k ohm
R369, R469	5181508000	12 k ohm
R370, R470	5181534000	150 k ohm
R371, R471	5181458000	100 ohm
R372, R472	5181522000	47 k ohm
R373, R473	5181494000	3.3 k ohm
R374, R474	5181518000	33 k ohm
R375, R475	5181490000	2.2 k ohm
R376, R476	5181518000	33 k ohm
R377, R477	5181492000	2.7 k ohm
R378, R478	5181450000	47 ohm
R379, R479	5181494000	3.3 k ohm
R380, R480	5181444000	27 ohm
R381, R481	5181508000	12 k ohm
R382, R482	5181460000	120 ohm
R383, R483	5181530000	100 k ohm
R384, R484	5181530000	100 k ohm
R385, R485	5181530000	100 k ohm
R386	5181530000	100 k ohm
R387	5181522000	47 k ohm
R388	5181498000	4.7 k ohm
R389	5181530000	100 k ohm
R390	5181498000	4.7 k ohm
R391	5181530000	100 k ohm
R392	5181498000	4.7 k ohm
R393	5181518000	33 k ohm
R394	5181530000	100 k ohm

CAPACITORS

C301, C401	5173130800	Elec.	4.7 mfd	35V (USM)
C302, C402	5173130800	Elec.	4.7 mfd	35V (USM)
C303, C403	5173550800	Elec.	0.1 mfd	50V (MD)
C304, C404	5173158800	Elec.	22 mfd	25V (USM)
C305	5173184800	Elec.	47 mfd	25V (USM)
C306	5173158800	Elec.	22 mfd	25V (USM)
C307	5173010800	Elec.	10 mfd	16V (USM)
C308	5173158800	Elec.	22 mfd	25V (USM)
C309, C409	5054758000	Dip. Mica	82 pfd	50V 5%
C310	5173650800	Elec.	2.2 mfd	50V (MD)
C311	5173140800	Elec.	10 mfd	16V (USM)
C312	5173642800	Elec.	1 mfd	50V (MD)
C313	5173142800	Elec.	10 mfd	25V (USM)
C314, C414	5171876800	Mylar	0.068 mfd	100V 5%
C315, C415	5173769000	Polyst.	560 pfd	100V 5%
C316, C416	5173642800	Elec.	1 mfd	50V (MD)
C317, C417	5173142800	Elec.	10 mfd	25V (USM)
C318, C418	5173140800	Elec.	10 mfd	16V (USM)
C319, C419	5173652800	Elec.	3.3 mfd	25V (MD)
C320, C420	5173642800	Elec.	1 mfd	50V (MD)
C321, C421	5173140800	Elec.	10 mfd	16V (USM)
C322, C422	5173674800	Elec.	10 mfd	25V (MD)
C323, C423	5173731000	Polyst.	820 pfd	100V 5%
C324, C424	5171862800	Mylar	0.018 mfd	100V 5%
C325, C425	5170374800	Mylar	0.0082 mfd	100V 5%
C326, C426	5171862800	Mylar	0.018 mfd	100V 5%

REF. NO.	PARTS NO.	DESCRIPTION
C327, C427	5171864800	Mylar 0.022 mfd 100V 5%
C328, C428	5170374800	Mylar 0.0082 mfd 100V 5%
C329, C429	5054330000	Dip. Mica 150 pfd 50V 10%
	VARIABLE RESISTORS	
R13, R23	5150233000	Semi-fixed, 20 k ohm - B
R14, R24	5150233000	Semi-fixed, 20 k ohm - B
R15, R25	5150092000	Semi-fixed, 10 k ohm - B
R16, R26	5150094000	Semi-fixed, 50 k ohm - B
R17, R27	5150094000	Semi-fixed, 50 k ohm - B
	TRIMMER CAPACITORS	
C30, C40	5171614000	330 pfd Max.
C31, C41	5170017000	150 pfd Max.
C32, C42	5170017000	150 pfd Max.
	COILS	
L301, L401	5160042000	Rec. EQ, 3.6 mH
L302, L402	5160042000	Rec. EQ, 3.6 mH
L303, L403	5056635000	Rec. EQ, 8 mH
L304, L404	5056659000	Trap, 3 mH
	MISCELLANEOUS	
U103	5040106000	BIAS OSC UNIT, 100 k Hz
RT11, RT21	5143128000	Thermistor, S5C-34
P9	5122132000	Connector, Plug; 8P (White)
P10	5122130000	Connector, Plug; 6P (White)
P11	5122301000	Connector, Plug; 4P (Red)
P12	5122131000	Connector, Plug; 7P (White)
P13	5122127000	Connector, Plug; 3P (White)
P14	5122128000	Connector, Plug; 4P (White)
TP10, TP20	5544750000	Pin, Combination
TP11, TP21	5544750000	Pin, Combination
TP12	5544750000	Pin, Combination
TP13	5544750000	Pin, Combination
TP15	5544750000	Pin, Combination

CONTROL PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5158067300	PCB Assy
	5157067100	PCB
	IC	
U501	5147047000	M54410P
	TRANSISTORS	
Q501~Q507	5145091000	2SC945A(K)
Q510~Q512	5045091000	2SC945A(K)
Q513	5042553000	2SA733(P)
Q514, Q515	5145091000	2SC945A(K)
Q516	5042625000	2SC1318(S)
Q517	5042527000	2SD288(K)
Q518	5145091000	2SC945A(K)
Q519	5042553000	2SA733(P)
Q520	5042527000	2SD288(K)
Q521, Q522	5145091000	2SC945A(K)
Q523	5042491000	2SC1384(R)
Q524	5145091000	2SC945A(K)
Q525	5042491000	2SC1384(R)
Q526, Q527	5145085000	2SA934(R)
Q528	5042527000	2SD288(K)
Q529~Q532	5145091000	2SC945A(K)
Q533	5042625000	2SC1318(S)
Q534	5042527000	2SD288(K)
Q535	5145091000	2SC945A(K)
Q536	5042553000	2SA733(P)
Q537	5042527000	2SD288(K)
Q538, Q539	5042625000	2SC1318(S)
Q540~Q545	5145091000	2SC945A(K)
Q546	5145034000	2SC900(U)
Q549~Q551	5145091000	2SC945A(K)
Q553, Q554	5145091000	2SC945A(K)
Q556	5145091000	2SC945A(K)
Q557	5145082000	2SC2060(Q)
Q559, Q560	5145091000	2SC945A(K)
Q561	5145098000	2SC1741(Q)
Q565	5145091000	2SC945A(K)
Q566	5042527000	2SD288(K)
Q569, Q570	5145091000	2SC945A(K)
Q571	5042553000	2SA733(P)
Q572~Q574	5145091000	2SC945A(K)
Q575	5145086000	2SC1636-2
	DIODES	
D501~Q519	5143118000	1S2473HJ
D521	5143183000	Zener, EQA01-06(R)
D522	5143118000	1S2473HJ
D523, D524	5143243000	ERB12-02G1
D525~D530	5143118000	1S2473HJ
D531, D532	5143243000	ERB12-02G1
D533, D534	5143118000	1S2473HJ
D535	5143184000	Zener, EQA01-06(S)
D536~D544	5143118000	1S2473HJ
D545	5143188000	Zener, EQA01-08(R)
D546	5143118000	1S2473HJ
D547	5143143000	Zener, RD4.3EB
D548, D549	5143118000	1S2473HJ
D551~D555	5143118000	1S2473HJ

REF. NO.	PARTS NO.	DESCRIPTION
D558	5143243000	ERB12-02G1
D559~D561	5143118000	1S2473HJ
D562	5143143000	Zener, RD4.3EB

CARBON RESISTORS

All resistors are rated ±5% tolerance and ¼ watt.

R501~R507	5181446000	33 ohm
R508	5181480000	820 ohm
R509	5181498000	4.7 k ohm
R510	5181494000	3.3 k ohm
R511	5181480000	820 ohm
R512	5181498000	4.7 k ohm
R513	5181494000	3.3 k ohm
R514	5181480000	820 ohm
R515	5181498000	4.7 k ohm
R516	5181494000	3.3 k ohm
R517	5181480000	820 ohm
R518	5181498000	4.7 k ohm
R519	5181494000	3.3 k ohm
R520	5181480000	820 ohm
R521	5181498000	4.7 k ohm
R522	5181494000	3.3 k ohm
R523	5181480000	820 ohm
R524	5181498000	4.7 k ohm
R525	5181494000	3.3 k ohm
R526	5181500000	5.6 k ohm
R527	5181482000	1 k ohm
R528	5181486000	1.5 k ohm
R529	5181516000	27 k ohm
R533	5181502000	6.8 k ohm
R534	5181462000	150 ohm
R535	5181516000	27 k ohm
R536	5181504000	8.2 k ohm
R537	5181516000	27 k ohm
R538	5181504000	8.2 k ohm
R539	5181524000	56 k ohm
R540, R541	5181484000	1.2 k ohm
R542	5181502000	6.8 k ohm
R543	5181468000	270 ohm
R545	5181530000	100 k ohm
R546	5181494000	3.3 k ohm
R547	5181524000	56 k ohm
R548	5181498000	4.7 k ohm
R549	5181518000	33 k ohm
R550	5181500000	5.6 k ohm
R551, R552	5181486000	1.5 k ohm
R553	5181530000	100 k ohm
R554	5181506000	10 k ohm
R555	5181522000	47 k ohm
R556	5181506000	10 k ohm
R557	5181434000	10 ohm
R558	5181458000	100 ohm
R559	5181524000	56 k ohm
R560	5181500000	5.6 k ohm
R561	5181518000	33 k ohm
R562	5181500000	5.6 k ohm
R563	5181518000	33 k ohm
R564	5181500000	5.6 k ohm
R565	5181494000	3.3 k ohm
R566, R567	5181142000	330 k ohm
R568	5181494000	3.3 k ohm
R569	5181518000	33 k ohm
R570	5181500000	5.6 k ohm

REF. NO.	PARTS NO.	DESCRIPTION
R571, R572	5181468000	270 ohm
R573	5181478000	680 ohm
R574	5181524000	56 k ohm
R575	5181498000	4.7 k ohm
R576	5181524000	56 k ohm
R577	5181498000	4.7 k ohm
R578	5181518000	33 k ohm
R579	5181524000	56 k ohm
R580	5181498000	4.7 k ohm
R581	5181518000	33 k ohm
R582	5181500000	5.6 k ohm
R583, R584	5181486000	1.5 k ohm
R585	5181530000	100 k ohm
R586	5181506000	10 k ohm
R587	5181522000	47 k ohm
R588	5181506000	10 k ohm
R589	5181434000	10 ohm
R590	5181482000	1 k ohm
R591	5181518000	33 k ohm
R592	5181494000	3.3 k ohm
R593, R594	5181524000	56 k ohm
R595	5181498000	4.7 k ohm
R596	5181494000	3.3 k ohm
R597, R598	5181524000	56 k ohm
R599	5181506000	10 k ohm
R600, R601	5181524000	56 k ohm
R602	5181498000	4.7 k ohm
R603	5181518000	33 k ohm
R604	5181482000	1 k ohm
R605	5181536000	180 k ohm
R606	5181486000	1.5 k ohm
R607	5181494000	3.3 k ohm
R608	5181524000	56 k ohm
R609	5181498000	4.7 k ohm
R610	5181494000	3.3 k ohm
R611	5181524000	56 k ohm
R612	5181506000	10 k ohm
R613	5181458000	100 ohm
R614	5181520000	39 k ohm
R615	5181518000	33 k ohm
R616	5181514000	22 k ohm
R618	5181494000	3.3 k ohm
R619	5183150000	680 k ohm
R620	5181528000	82 k ohm
R621, R622	5181500000	5.6 k ohm
R629	5181510000	15 k ohm
R631~R633	5181510000	15 k ohm
R634	5181498000	4.7 k ohm
R635	5181518000	33 k ohm
R639	5181514000	22 k ohm
R640	5181498000	4.7 k ohm
R641	5181514000	22 k ohm
R642	5181498000	4.7 k ohm
R643	5181458000	100 ohm
R645	5181446000	33 ohm
R647	5181490000	2.2 k ohm
R648	5181504000	8.2 k ohm
R660	5181494000	3.3 k ohm
R661	5181512000	18 k ohm
R664	5181494000	3.3 k ohm
R665	5181458000	100 ohm
R666	5181490000	2.2 k ohm
R667	5181506000	10 k ohm
R668	5181538000	220 k ohm

REF. NO.	PARTS NO.	DESCRIPTION
R669	5181516000	27 k ohm
R670	5181482000	1 k ohm
R671	5181506000	10 k ohm
R672	5181510000	15 k ohm
R673	5181458000	100 ohm
R674	5181490000	2.2 k ohm
R675	5181530000	100 k ohm
R676	5181510000	15 k ohm
R684	5181518000	33 k ohm
R685	5181530000	100 k ohm
R686	5181510000	15 k ohm
R687	5181502000	6.8 k ohm
R688	5181490000	2.2 k ohm
R693	5181530000	100 k ohm
R696	5181522000	47 k ohm
R697	5181524000	56 k ohm
R698, R699	5181482000	1 k ohm
R700	5181458000	100 ohm
R701	5181482000	1 k ohm
R702	5181504000	8.2 k ohm
R703	5181490000	2.2 k ohm
R704	5181502000	6.8 k ohm
R705	5181498000	4.7 k ohm
R706	5181502000	6.8 k ohm
R707	5181514000	22 k ohm
R708	5181518000	33 k ohm
	CAPACITORS	
C501~C505	5172996800	Elec. 2.2 mfd 50V (USM)
C506	5173010800	Elec. 10 mfd 16V (USM)
C507	5173017800	Elec. 22 mfd 10V (USM)
C508	5173035800	Elec. 47 mfd 10V (USM)
C509	5172990800	Elec. 0.47 mfd 50V (USM)
C510	5172996800	Elec. 2.2 mfd 50V (USM)
C511	5173027800	Elec. 33 mfd 16V (USM)
C512	5173018800	Elec. 22 mfd 16V (USM)
C513	5172996800	Elec. 2.2 mfd 50V (USM)
C514, C515	5170425800	Mylar 0.01 mfd 100V 5%
C516	5055935000	Elec. 10 mfd 25V (BP)
C517	5172996800	Elec. 2.2 mfd 50V (USM)
C518	5173010800	Elec. 10 mfd 16V (USM)
C519	5172996800	Elec. 2.2 mfd 50V (USM)
C520	5173035800	Elec. 47 mfd 10V (USM)
C521	5172992800	Elec. 1 mfd 50V (USM)
C522	5173035800	Elec. 47 mfd 10V (USM)
C523	5173027800	Elec. 33 mfd 16V (USM)
C524	5173011800	Elec. 10 mfd 25V (USM)
C525	5173005800	Elec. 4.7 mfd 10V (USM)
C526	5173027800	Elec. 33 mfd 16V (USM)
C527	5172916800	Elec. 33 mfd 16V (USM)
C528	5173035800	Elec. 47 mfd 10V (USM)
C529	5173011800	Elec. 10 mfd 16V (USM)
C531	5173019800	Elec. 22 mfd 25V (USM)
C532	5173010800	Elec. 10 mfd 16V (USM)
C533	5173005800	Elec. 4.7 mfd 35V (USM)
C534	5172895800	Elec. 33 mfd 16V (USM)
C535	5170425800	Mylar 0.01 mfd 100V 5%
C536, C537	5173017800	Elec. 22 mfd 10V (USM)
C538, C539	5172992800	Elec. 1 mfd 50V (USM)
C540	5173035800	Elec. 47 mfd 10V (USM)
	MISCELLANEOUS	
	5033295000	Tube, Insulating
	5033291000	Plate, Insulating

POWER SUPPLY PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5158072000	PCB Assy
	5157072000	PCB
	TRANSISTORS	
Q801	5145108000	2SD762(P)
Q802, Q803	5145091000	2SC945A(K)
Q804	5145108000	2SD762(P)
Q805, Q806	5145091000	2SC945A(K)
Q807	5145108000	2SD762(P)
Q808, Q809	5145091000	2SC945A(K)
Q810	5042553000	2SA733(P)
Q811	5145135000	2SD400MP(E)
	DIODES	
D801~D805	5143116000	1SR34-200VL
D806	5143154000	Zener, EQA01-06(S)
D807~D810	5143116000	1SR34-200VL
D811	5143168000	Zener, EQA01-13(R)
D812~D815	5143116000	1SR34-200VL
D816	5143154000	Zener, EQA01-06(S)
D817	5143116000	1SR34-200VL
D818	5042517000	1S2473VE
D819~D821	5143116000	1SR34-200VL
D822	5143153000	Zener, EQA01-06(R)
D823	5042517000	1S2473VE
	RESISTORS	
	All resistors are rated ±5% tolerance, ¼ watt and of carbon type unless otherwise noted.	
R801	5057500000	5.6 k ohm ½W
R802	⚠5184413000	5.6 ohm Cement 10% 5W (JAPAN, GENERAL EXPORT)
R802	⚠5183910000	5.6 ohm Fusible 10% 2W (All except JAPAN, GENERAL EXPORT)
R803	5057102000	6.8 k ohm
R804	5057098000	4.7 k ohm
R805	5057090000	2.2 k ohm
R806	5057082000	1 k ohm
R807	5057106000	10 k ohm
R808	5057132000	120 k ohm
R809	5057090000	2.2 k ohm
R810	5057098000	4.7 k ohm
R811	5057090000	2.2 k ohm
R812	5057098000	4.7 k ohm
R813	5057102000	6.8 k ohm
R814~R816	5057090000	2.2 k ohm
R817	5057098000	4.7 k ohm
R818	5057082000	1 k ohm
R819, R820	5057102000	6.8 k ohm
R821	5057106000	10 k ohm
R822	5057104000	8.2 k ohm
R823, R824	5057130000	100 k ohm
R825	5057126000	68 k ohm
R826	5057142000	330 k ohm
R827	5057110000	15 k ohm
R828	5057064000	180 ohm
R829	⚠5185906000	15 ohm Fusible
R830	⚠5181974000	10 ohm Non Flammable ½W

C-2

REF. NO.	PARTS NO.	DESCRIPTION
	CAPACITORS	
C801	5172973800	Elec. 1000 mfd 50V (USM)
C802	5172978800	Elec. 2200 mfd 25V (USM)
C803	5172971800	Elec. 1000 mfd 25V (USM)
C804	5172964800	Elec. 470 mfd 50V (USM)
C805	5172936800	Elec. 100 mfd 35V (USM)
C806	5170425800	Mylar 0.01 mfd 100V 5%
C807	5172973800	Elec. 1000 mfd 50V (USM)
C808	5172937800	Elec. 100 mfd 50V
C809	5172937800	Elec. 1 mfd 50V
C810	5172972800	Elec. 1000 mfd 35V
C811	5054230000	Ceramic 0.047 mfd 50V
C812	5172971800	Elec. 1000 mfd 25V
C813	5172935800	Elec. 100 mfd 25V (USM)
C814	5172882800	Elec. 1 mfd 50V (USM)
C815	5172971800	Elec. 1000 mfd 25V (USM)
C816, C817	5172942800	Elec. 220 mfd 10V (USM)
C818	5172882800	Elec. 1 mfd 50V (USM)
C819	5172924800	Elec. 47 mfd 50V (USM)
C820	5172908800	Elec. 22 mfd 16V (USM)
C821	5172909800	Elec. 22 mfd 25V (USM)
C822	5172969800	Elec. 1000 mfd 10V (USM)
C823	5172933800	Elec. 100 mfd 10V (USM)
	VARIABLE RESISTORS	
R81	5150153000	Semi-fixed, 5 k ohm - B
R82	5150151000	Semi-fixed, 1 k ohm - B
	MISCELLANEOUS	
P32	5122138000	Connector, Plug; 14P (White)
P33	5122324000	Connector, Plug; 9P
P38	5122127000	Connector, Plug; 3P (White)
	5033295000	Tube, Insulating x 3
	5033291000	Plate, Insulating x 3

PHONE AMPL PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5158064000	PCB Assy
	5157064000	PCB
	IC	
U104	5147074000	LA4170
	TRANSISTORS	
Q170, Q270	5145183000	FET, 2SK68AM1
Q171, Q271	5145086000	2SC1636(2)
	RESISTORS	
	All resistors are rated ±5% tolerance, ¼ watt and of carbon type unless otherwise noted.	
R170	5183116000	27 k ohm
R270	5183106000	10 k ohm
R171, R271	5182134000	150 k ohm
R172, R272	5183140000	270 k ohm
R173, R273	5183042000	22 ohm
R174, R274	5183098000	4.7 k ohm
R175, R275	5183074000	470 ohm
R176, R276	5183082000	1 k ohm
R177, R277	5183082000	1 k ohm
R178, R278	5183122000	47 k ohm
R179, R279	5183110000	15 k ohm
R180, R280	5183130000	100 k ohm
R181	⚠5184225000	10 ohm Non Flammable
R182, R282	5183048000	39 ohm
R183, R283	5183082000	1 k ohm
	CAPACITORS	
C170, R270	5173028800	Elec. 33 mfd 25V (USM)
C171, C271	5173556800	Elec. 1 mfd 50V (MD)
C172, C272	5172992800	Elec. 1 mfd 50V (USM)
C173	5173010800	Elec. 10 mfd 16V (USM)
C174, C274	5173010800	Elec. 10 mfd 10V (USM)
C175, C275	5173044800	Elec. 100 mfd 10V (USM)
C176	5173054800	Elec. 220 mfd 16V (USM)
	MISCELLANEOUS	
R28	5150157000	Var. Res., Semi-fixed; 100 k ohm-B
P15	5122128000	Connector, Plug; 4P (White)
P16	5122301000	Connector, Plug; 4P (Red)
P17	5122185000	Connector, Plug; 4P (Black)
P18	5122129000	Connector, Plug; 5P (White)
P19	5122127000	Connector, Plug; 3P (White)

CONNECTOR PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5158129000	PCB Assy
	5167730100	PCB
	DIODES	
D650~D652	5143089000	W03C
	MISCELLANEOUS	
R650, R651	⚠5185849000	Res., Fusible; 33 ohm ½W 5%
C650, C651	5055949000	Cap. Elec.; 47 mfd 50V (B.P.)
P650	5122134000	Connector, Plug; 10P (White)
P651	5122132000	Connector, Plug; 8P (White)
P652	5122126000	Connector, Plug; 2P (White)

REMOTE PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5158102000	PCB Assy
	5157102000	PCB
	CARBON RESISTORS	
	All resistors are rated ±5% tolerance and ¼ watt.	
R690	5183082000	1 k ohm
R691	5183074000	470 ohm
R692	5183082000	1 k ohm
R693	5183074000	470 ohm
R694	5183082000	1 k ohm
R695	5183074000	470 ohm
R696	5183094000	3.3 k ohm
	MISCELLANEOUS	
J36	5122336000	Connector, Socket; 12P

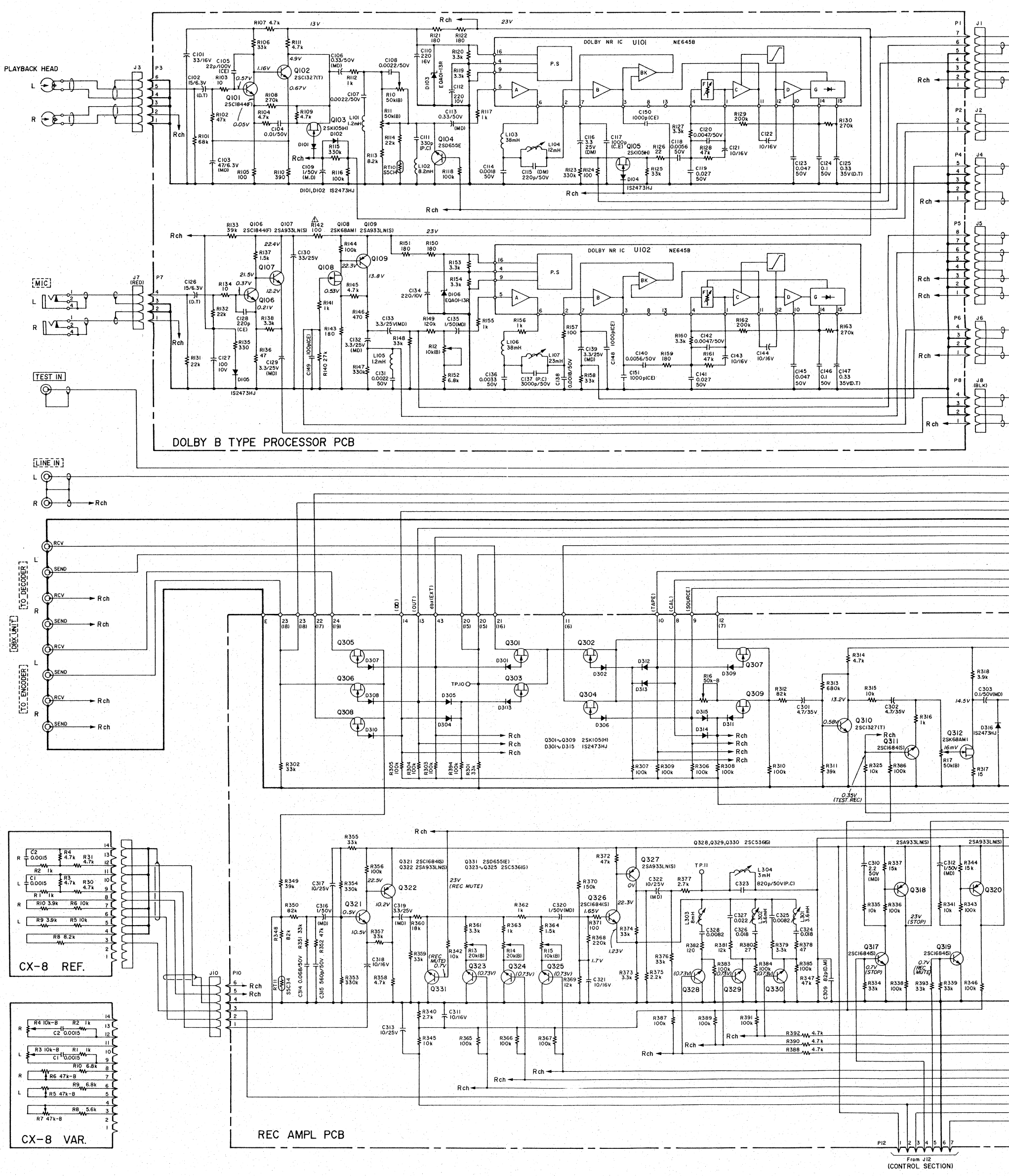
SW PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5158068000	PCB Assy
	5157068000	PCB
	DIODES	
D750	5183106000	1S2473HJ
D751	5143118000	1S2473HJ
	CARBON RESISTORS	
	All resistors are rated ±5% tolerance and ¼ watt.	
R750, R850	5183124000	56 k ohm
R751, R851	5183124000	56 k ohm
R752, R852	5183118000	33 k ohm
R753	5183084000	1.2 k ohm
R754	5183084000	1.2 k ohm
R755	5183106000	10 k ohm
	MISCELLANEOUS	
S1	5132042000	Switch, Lever; 2P3T
S2	5132042000	Switch, Lever; 2P3T
S3	5132043000	Switch, Lever; 4P3T
S4	5132041000	Switch, Lever; 2P3T
S5	5132041000	Switch, Lever; 2P3T
S6	5132043000	Switch, Lever; 4P3T
P20	5122134000	Connector, Plug; 10P
P21	5122130000	Connector, Plug; 6P
P22	5122129000	Connector, Plug; 5P
P23	5122126000	Connector, Plug; 2P
P24	5122131000	Connector, Plug; 7P
P25	5122127000	Connector, Plug; 3P
P26	5122183000	Connector, Plug; 2P (Black)
P27	5122136000	Connector, Plug; 12P

Continued from page 17

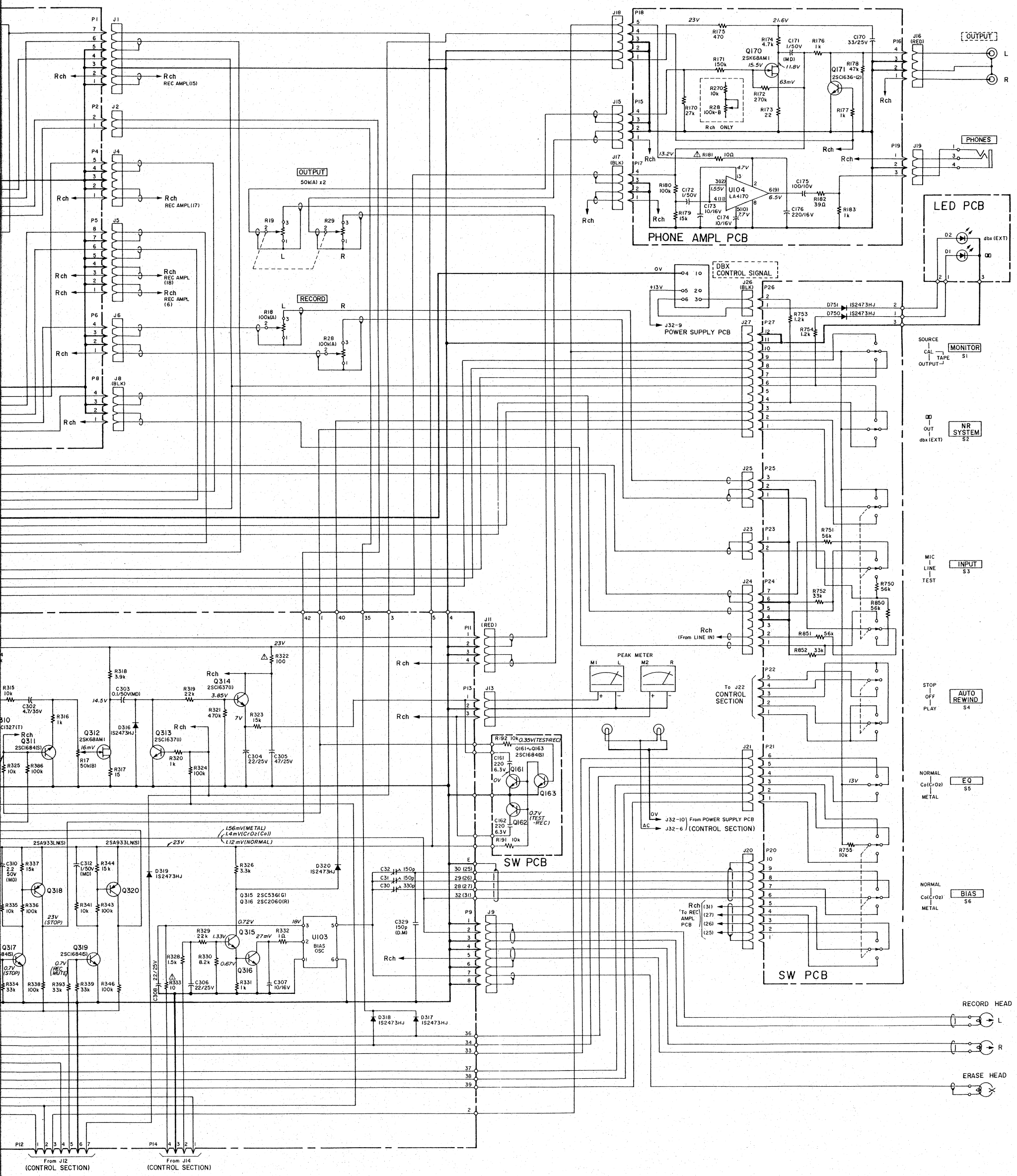
Parts marked with *require longer delivery time than regular parts.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
2 - 64	5138005000	Key Board Unit	
2 - 65	*5122174000	Connector, Socket; 12P	
2 - 66	*5555271000	Spring, Key Board	
2 - 67	*5555343000	Bracket, Key Board Unit	
2 - 68	5142039000	Lamp	
2 - 69	*5555901000	Bracket, Lamp	
2 - 70	*5555894000	Lever, Eject Preventing	
2 - 71	*5524279000	Spring, Eject Preventing Lever	
2 - 72	*5555890000	Slide Plate, Eject; 1	
2 - 73	*5555889000	Spacer	
2 - 74	*5524199000	Spring, Eject	



NOTES

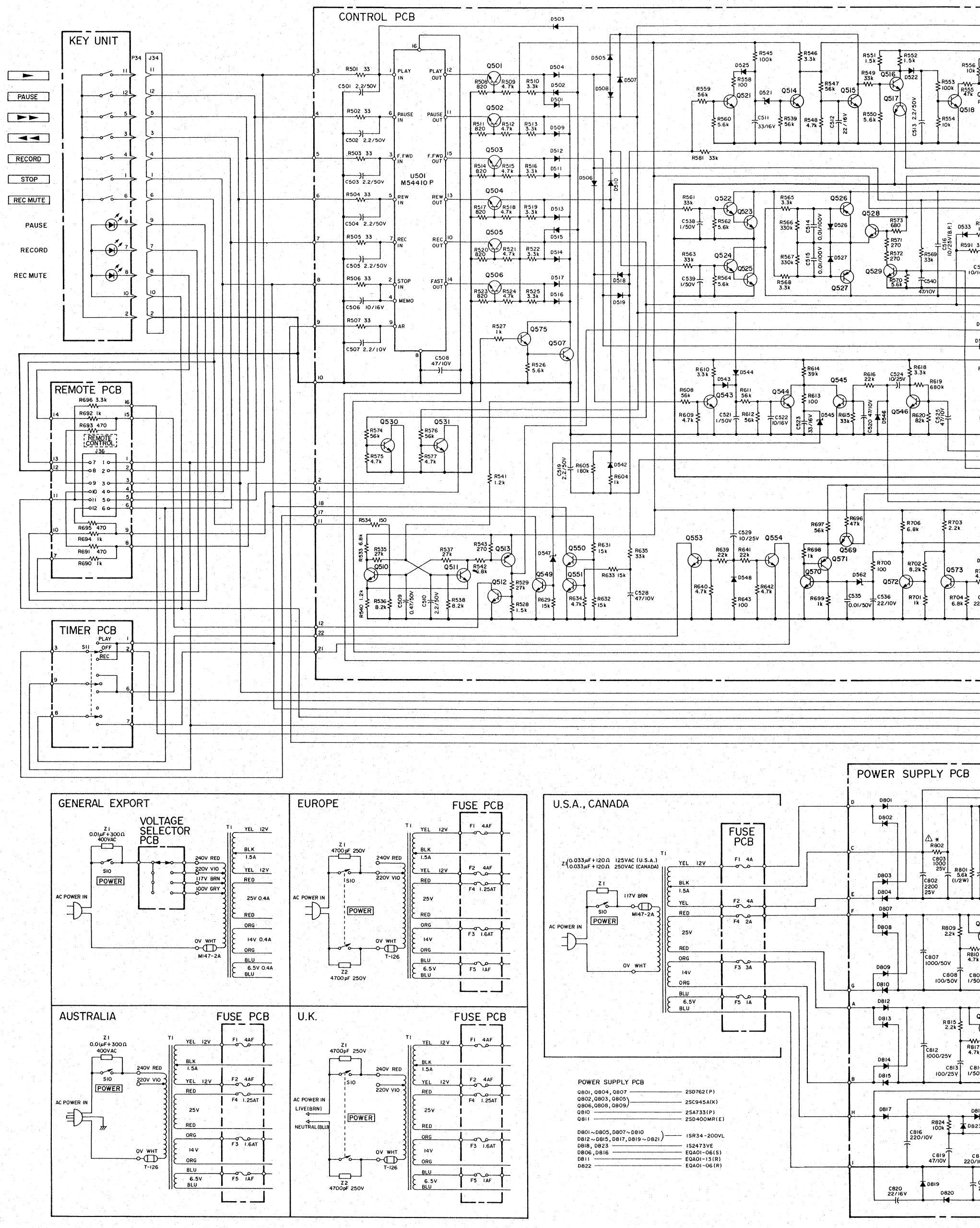
1. ALL RESISTORS ARE ¼ WATT, RESISTOR VALUES ARE IN OH
2. ALL CAPACITOR VALUES ARE
3. SCHEMATIC DIAGRAM SHOWN SOME OF THE COMPONENTS.
4. DC VOLTAGES WERE MEASURE UNLESS OTHERWISE NOTED.
5. ⚠ PARTS MARKED WITH THIS COMPONENTS. THEY MUST AL COMPONENTS - REFER TO THE EXACT REPLACEMENT.



1. RESISTORS ARE ¼ WATT, 5%, UNLESS MARKED OTHERWISE.
2. RESISTOR VALUES ARE IN OHMS (k = 1,000 OHMS, M = 1,000,000 OHMS).
3. CAPACITOR VALUES ARE IN MICROFARADS (p = PICOFARADS).
4. SCHEMATIC DIAGRAM SHOWN FOR LEFT CHANNEL EXCEPT FOR SOME OF THE COMPONENTS.
5. DC VOLTAGES WERE MEASURED DURING RECORD PAUSE MODE UNLESS OTHERWISE NOTED.
6. ⚠ PARTS MARKED WITH THIS SIGN ARE SAFETY CRITICAL COMPONENTS. THEY MUST ALWAYS BE REPLACED WITH IDENTICAL COMPONENTS - REFER TO THE TEAC PARTS LIST AND ENSURE EXACT REPLACEMENT.

Stereo Cassette Deck

C-2

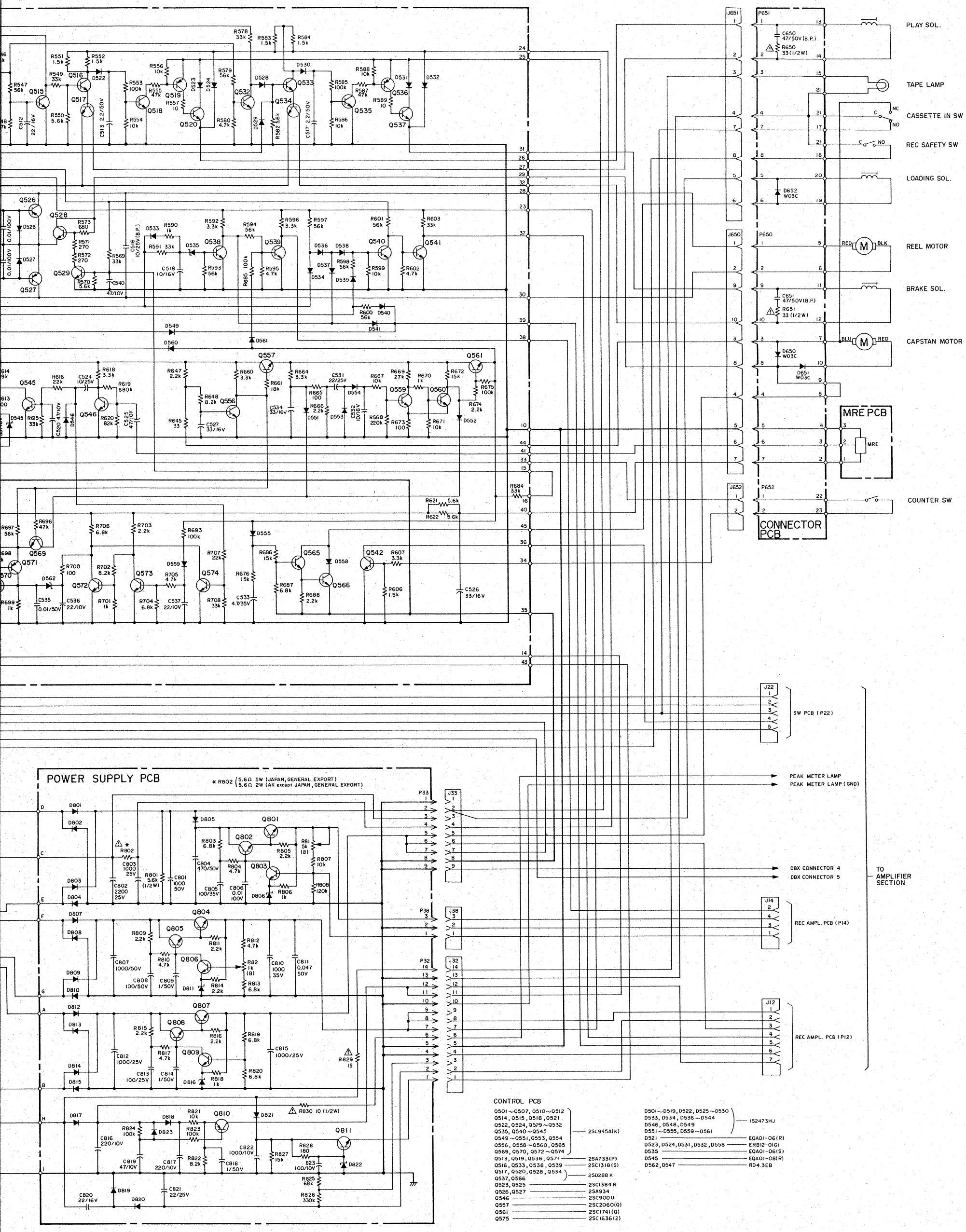


POWER SUPPLY PCB

Q801, Q804, Q807	2SD762(P)
Q802, Q803, Q805, Q806, Q808, Q809	2SC945A(K)
Q810	2SA733(P)
Q811	2SD400MR(E)
D801~D805, D807~D810, D812~D815, D817, D819~D821	1SR34-200VL
D818, D823	1S2473VE
D806, D816	EQA01-06(S)
D811	EQA01-13(R)
D822	EQA01-06(R)

NOTES

1. ALL RESISTORS ARE ¼ WATT, 5%, UNLESS
2. RESISTOR VALUES ARE IN OHMS (k = 1,000
3. ⚠ PARTS MARKED WITH THIS SIGN ARE SA COMPONENTS. THEY MUST ALWAYS BE REP COMPONENTS - REFER TO THE TEAC PARTS EXACT REPLACEMENT.


PLAY SOL.
TAPE LAMP
CASSETTE IN SW
REC SAFETY SW
LOADING SOL.
REEL MOTOR
BRAKE SOL.
CAPSTAN MOTOR
MRE PCB
MRE
COUNTER SW
CONNECTOR PCB
SW PCB (P22)
PEAK METER LAMP
PEAK METER LAMP (GND)
DBX CONNECTOR 4
DBX CONNECTOR 5
TO AMPLIFIER SECTION
REC AMPL. PCB (P14)
REC AMPL. PCB (P12)
POWER SUPPLY PCB
* R802 (5.6Ω 5W (JAPAN, GENERAL EXPORT) / 5.6Ω 2W (All except JAPAN, GENERAL EXPORT))
CONTROL PCB
Q501~Q507, Q510~Q512, Q514, Q515, Q518, Q521, Q522, Q524, Q529~Q532, Q535, Q540~Q545, Q549~Q551, Q553, Q554, Q556, Q558~Q560, Q565, Q569, Q570, Q572~Q574 — 2SC945A(K)
Q513, Q519, Q536, Q571 — 2SA733(P)
Q516, Q533, Q538, Q539 — 2SC1318(S)
Q517, Q520, Q528, Q534, Q537, Q566 — 2SD288K
Q523, Q525 — 2SC1384R
Q526, Q527 — 2SA934
Q546 — 2SC900U
Q557 — 2SC2060(Q)
Q561 — 2SC1741(Q)
Q575 — 2SC1636(2)
D501~D519, D522, D525~D530, D533, D534, D536~D544, D546, D548, D549, D551~D555, D559~D561 — 1S2473HJ
D521 — EQA01-06(R)
D523, D524, D531, D532, D558 — ERB12-01G1
D535 — EQA01-06(S)
D545 — EQA01-08(R)
D562, D547 — RD4.3EB

ORS ARE ¼ WATT, 5%, UNLESS MARKED OTHERWISE.
ALUES ARE IN OHMS (k = 1,000 OHMS, M = 1,000,000 OHMS).
ARKED WITH THIS SIGN ARE SAFETY CRITICAL
S. THEY MUST ALWAYS BE REPLACED WITH IDENTICAL
S - REFER TO THE TEAC PARTS LIST AND ENSURE
LACEMENT.

Stereo Cassette Deck

C-2